



1631 SX LMC

Address and Location Guide

PN 3AL47973AE 01
R10.01, Issue 01, February 2005

THIS PRODUCT COMPLIES WITH D.H.H.S. RADIATION PERFORMANCE STANDARDS 21 CFR, 1040.10, FOR A CLASS 1 LASER PRODUCT.

DANGER

Invisible laser radiation is present when the optic connector is open. AVOID DIRECT EXPOSURE TO BEAM.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

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Alcatel
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3400 W. Plano Pkwy.
Plano, Texas 75075 USA

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1. INTRODUCTION

1.1 This document is a work aid that provides unit identification and location information for plug-in modules in systems of up to 3360 ports. Much of the information in this document is supplied by illustrations of fully equipped racks and shelves. These racks are as follows:

- Administrative Processing System (APS)
- Center-stage and end-stage racks
- Single matrix rack (LMC 240-port configuration only)
- SI48 and SI36 I/O racks
- DS1 and DS1/DS3 I/O racks

1.2 See figure 1-1 for a typical layout for a 2688-port system using Alcatel AIDs, and figure 1-2 for a 2688-port system using alternate AIDs. A fifth clover leaf can be added to grow the 2688-port system to a 3360-port system. See figure 1-3 for a fifth clover leaf expansion using Alcatel AIDs. See figure 1-4 for a fifth clover leaf using alternate AIDs. See figure 1-5 for a companion Input/Output (I/O) rack layout, figure 1-6 for a companion I/O rack layout using alternate AIDs, and figure 1-7 for the standard LMC 240-port layout with SI48 racks. Refer to the 1631 SX LMC Installation Practices manual (PN 3AL45389AJ) for illustrations of additional layout configurations.

Figure 1-1. 2688-Port Layout Using Alcatel AIDs

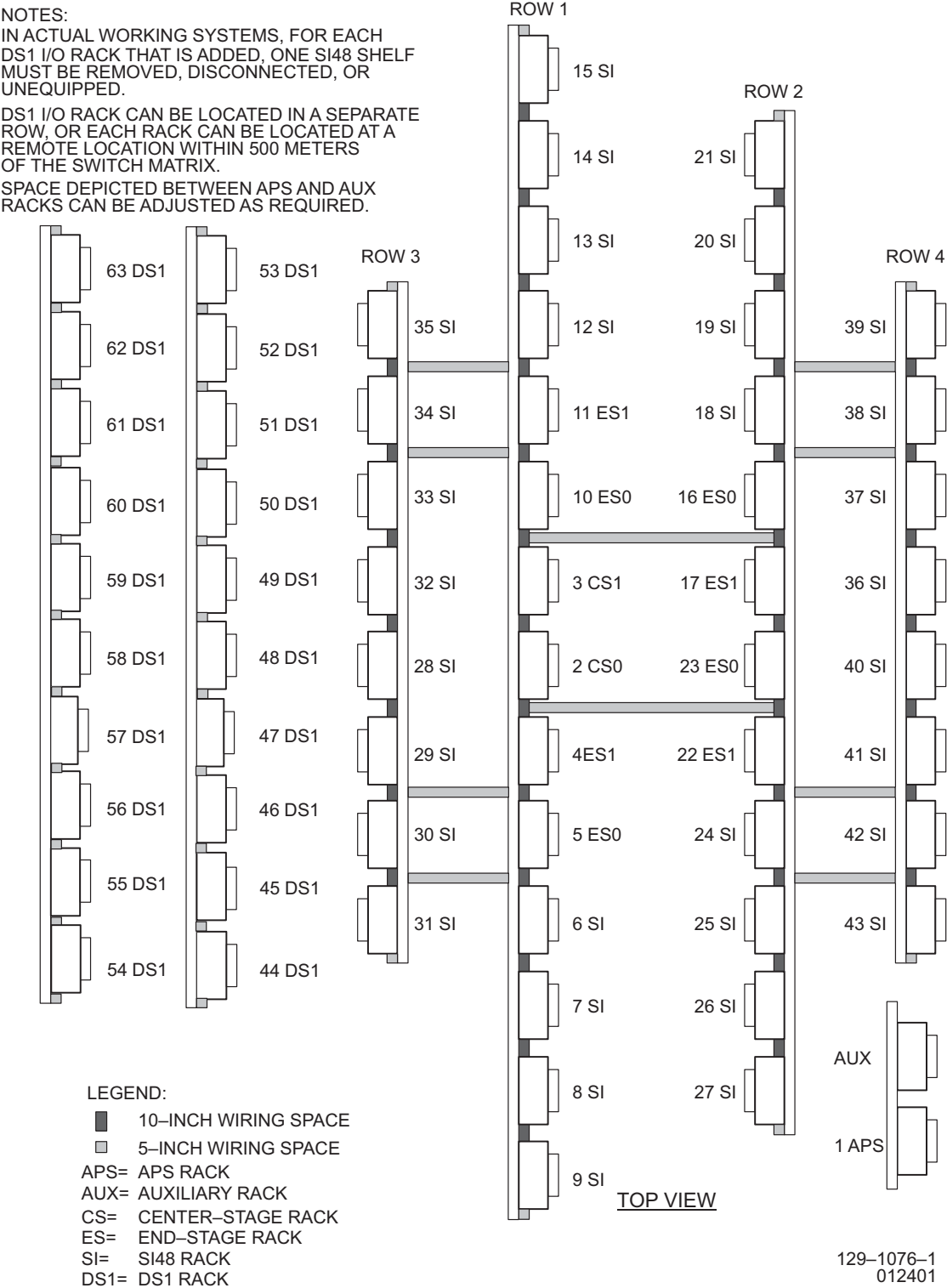


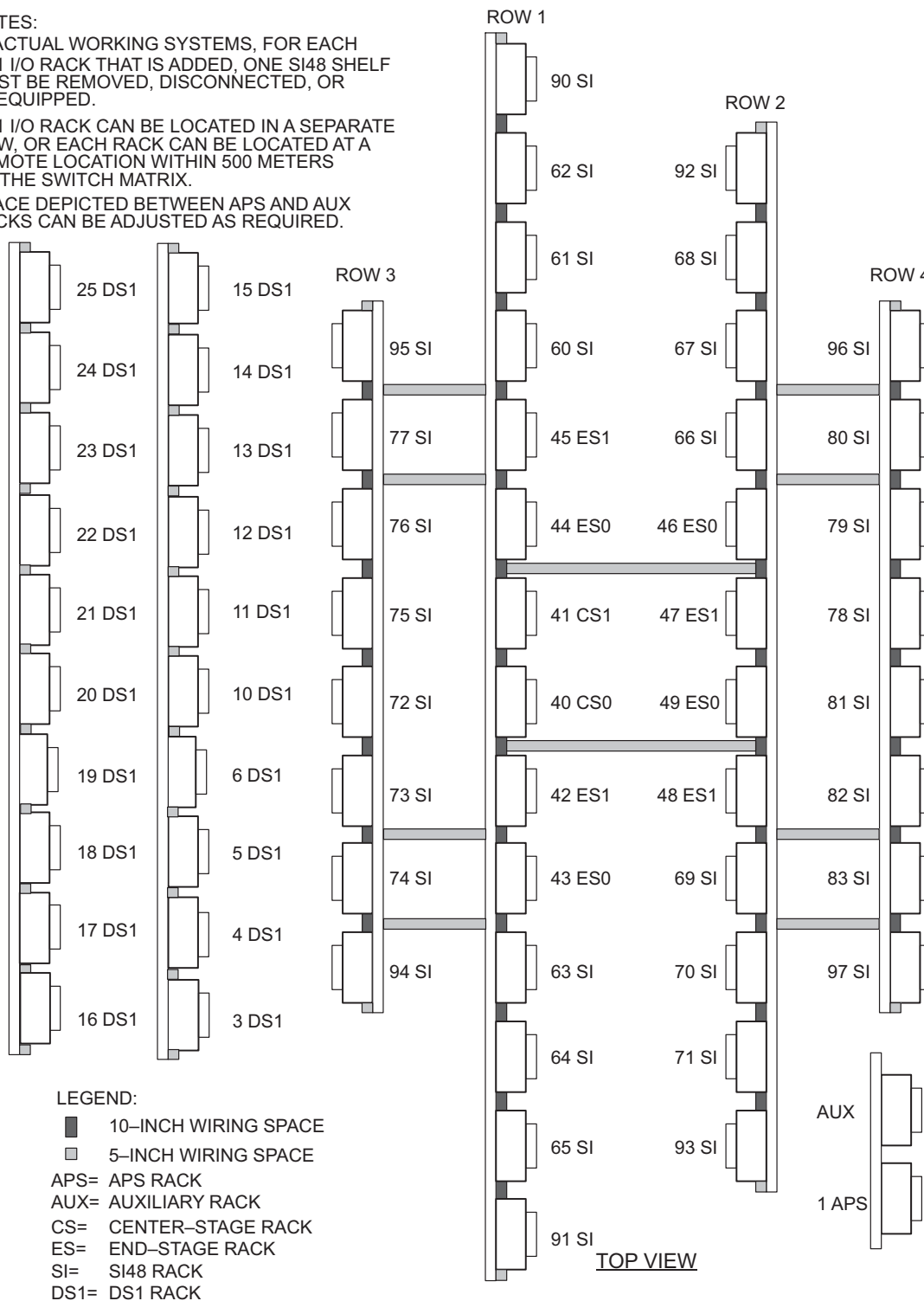
Figure 1-2. 2688-Port Layout Using Alternate AIDs

NOTES:

IN ACTUAL WORKING SYSTEMS, FOR EACH DS1 I/O RACK THAT IS ADDED, ONE SI48 SHELF MUST BE REMOVED, DISCONNECTED, OR UNEQUIPPED.

DS1 I/O RACK CAN BE LOCATED IN A SEPARATE ROW, OR EACH RACK CAN BE LOCATED AT A REMOTE LOCATION WITHIN 500 METERS OF THE SWITCH MATRIX.

SPACE DEPICTED BETWEEN APS AND AUX RACKS CAN BE ADJUSTED AS REQUIRED.



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Figure 1-3. 3360-Port System-Fifth Cloverleaf Using Alcatel AIDs

NOTES:

1. FIFTH LEAF IS ADDED TO A 2688-PORT SYSTEM TO CREATE A 3360-PORT SYSTEM.
2. FIFTH LEAF ES RACKS ARE CONNECTED TO THE 2688-PORT SYSTEM CS RACKS.
3. FIFTH LEAF ES CABLING IS DIVERSITY ROUTED TO THE CS RACKS.
4. MAXIMUM PHYSICAL DISTANCE BETWEEN FIFTH LEAF ES RACKS AND FIRST LEAF CS RACKS IS 18 METERS. CABLE LENGTH (CONNECTOR-TO-CONNECTOR) IS 24 METERS.
5. FIFTH LEAF I/O RACKS ARE REMOTE UP TO 500 METERS FROM THE ES RACKS.

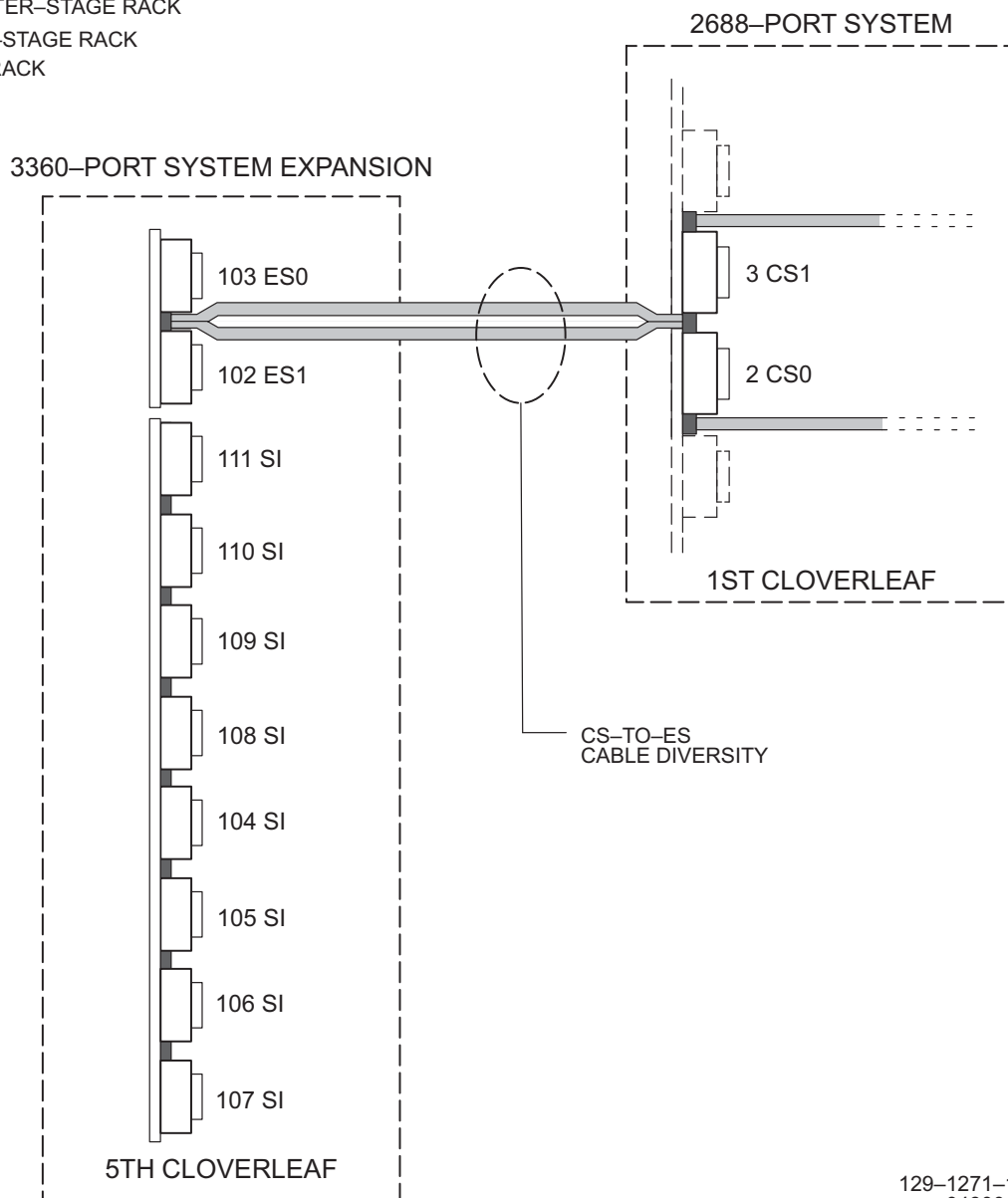
■ 10-INCH WIRING SPACE

□ 5-INCH WIRING SPACE

CS=CENTER-STAGE RACK

ES=END-STAGE RACK

SI=SI48 RACK



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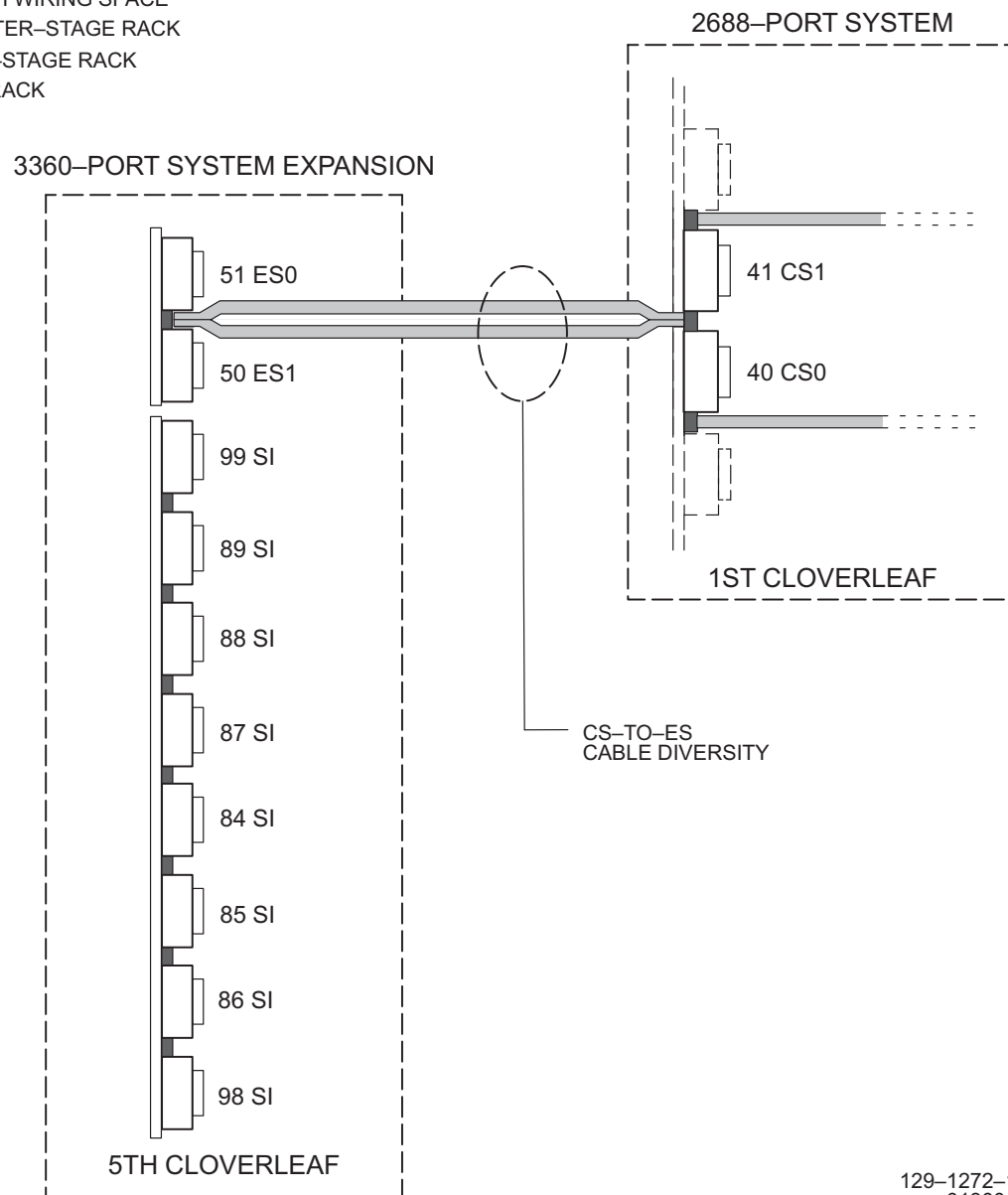
Figure 1-4. 3360-Port System-Fifth Cloverleaf Using Alternate AIDs

NOTES:

1. FIFTH LEAF IS ADDED TO A 2688-PORST SYSTEM TO CREATE A 3360-PORST SYSTEM.
2. FIFTH LEAF ES RACKS ARE CONNECTED TO THE 2688-PORST SYSTEM CS RACKS.
3. FIFTH LEAF ES CABLING IS DIVERSITY ROUTED TO THE CS RACKS.
4. MAX PHYSICAL DISTANCE BETWEEN FIFTH LEAF ES RACKS AND FIRST LEAF CS RACKS IS 18 METERS.
CABLE LENGTH (CONNECTOR-TO-CONNECTOR) IS 24 METERS.
5. FIFTH LEAF I/O RACKS ARE REMOTE UP TO 500 METERS FROM THE ES RACKS.

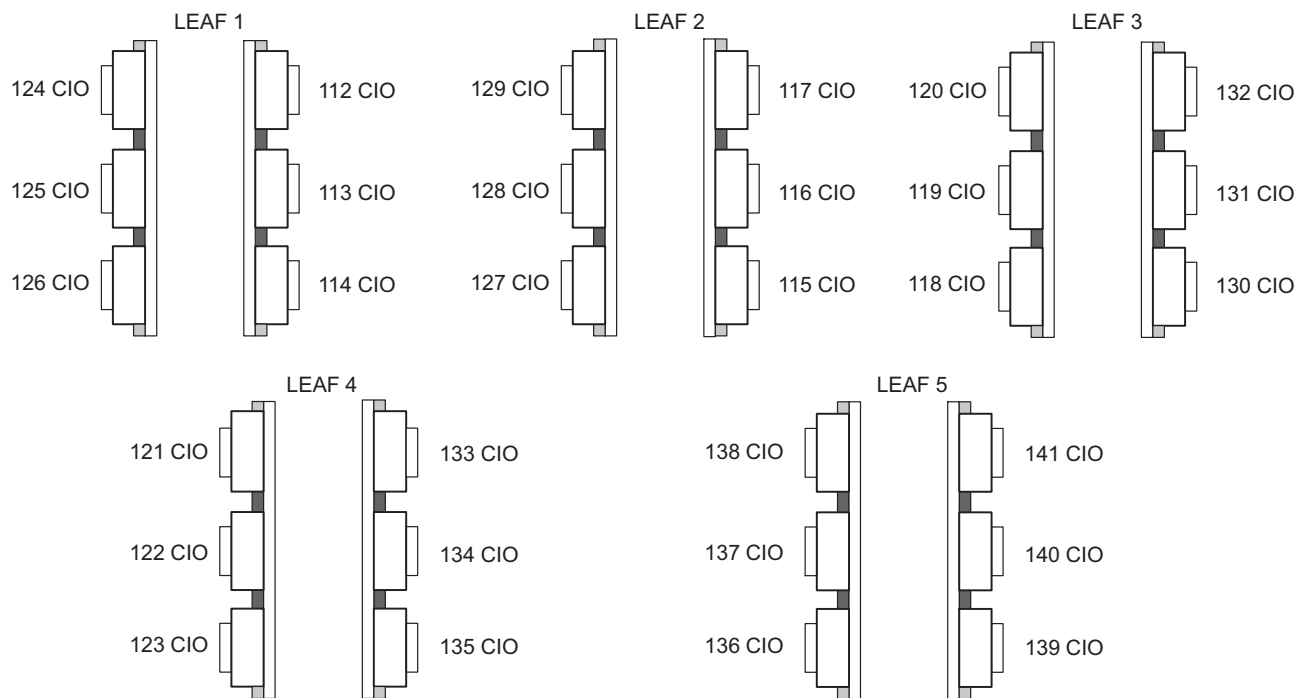
LEGEND:

- 10-INCH WIRING SPACE
- 5-INCH WIRING SPACE
- CS=CENTER-STAGE RACK
- ES=END-STAGE RACK
- SI=SI48 RACK



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Figure 1-5. Companion I/O Rack Layout Using Alcatel AIDs



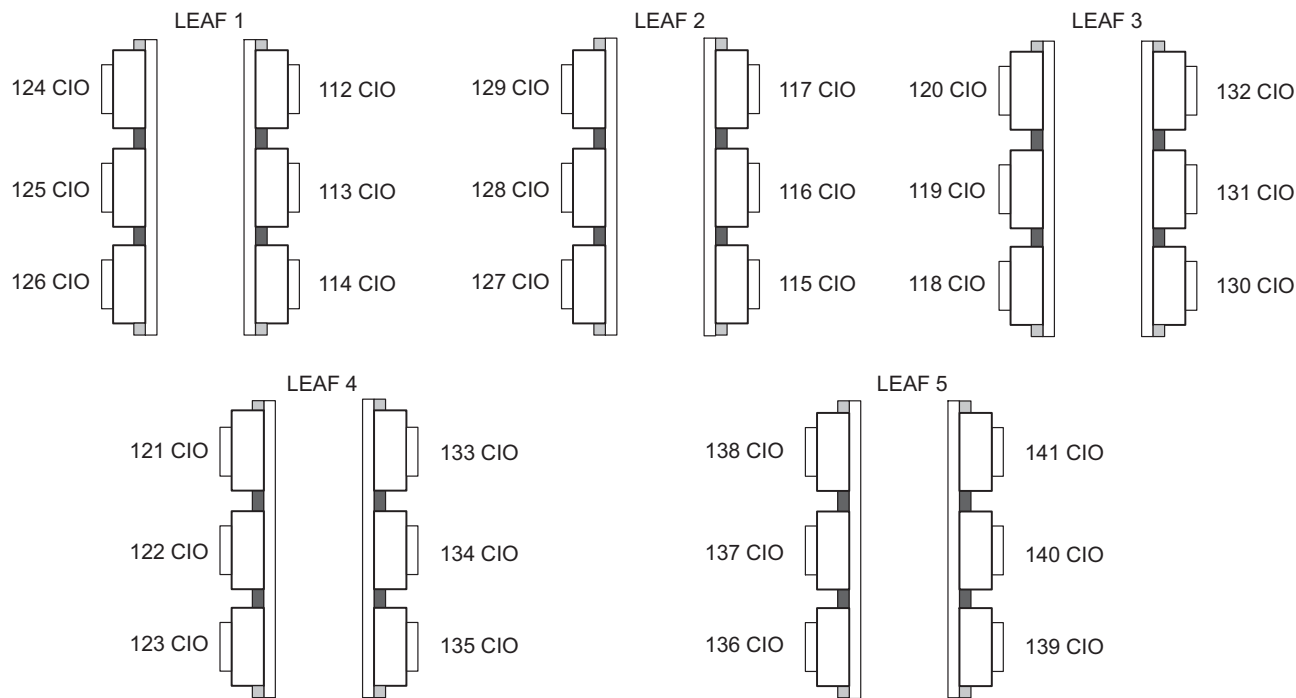
NOTE:
COMPANION I/O RACKS CAN BE IN A SEPARATE ROW,
OR EACH RACK CAN BE AT A REMOTE LOCATION
WITHIN 350 METERS OF THE SWITCH MATRIX.

LEGEND:
■ 10-INCH WIRING SPACE
□ 5-INCH WIRING SPACE
CIO= COMPANION I/O RACK

LEAF	RACK	COMPANION I/O RACK	LEAF	RACK	COMPANION I/O RACK
1	6	112	3	18	118
	7	113		19	119
	8	114		20	120
EXPANSION 1	28	124	EXPANSION 3	36	130
	29	125		37	131
	30	126		38	132
2	12	115	4	24	121
	13	116		25	122
	14	117		26	123
EXPANSION 2	32	127	EXPANSION 4	40	133
	33	128		41	134
	34	129		42	135
			5	104	136
				105	137
				106	138
			EXPANSION 5	108	139
				109	140
				110	141

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Figure 1-6. Companion I/O Rack Layout Using Alternate AIDs



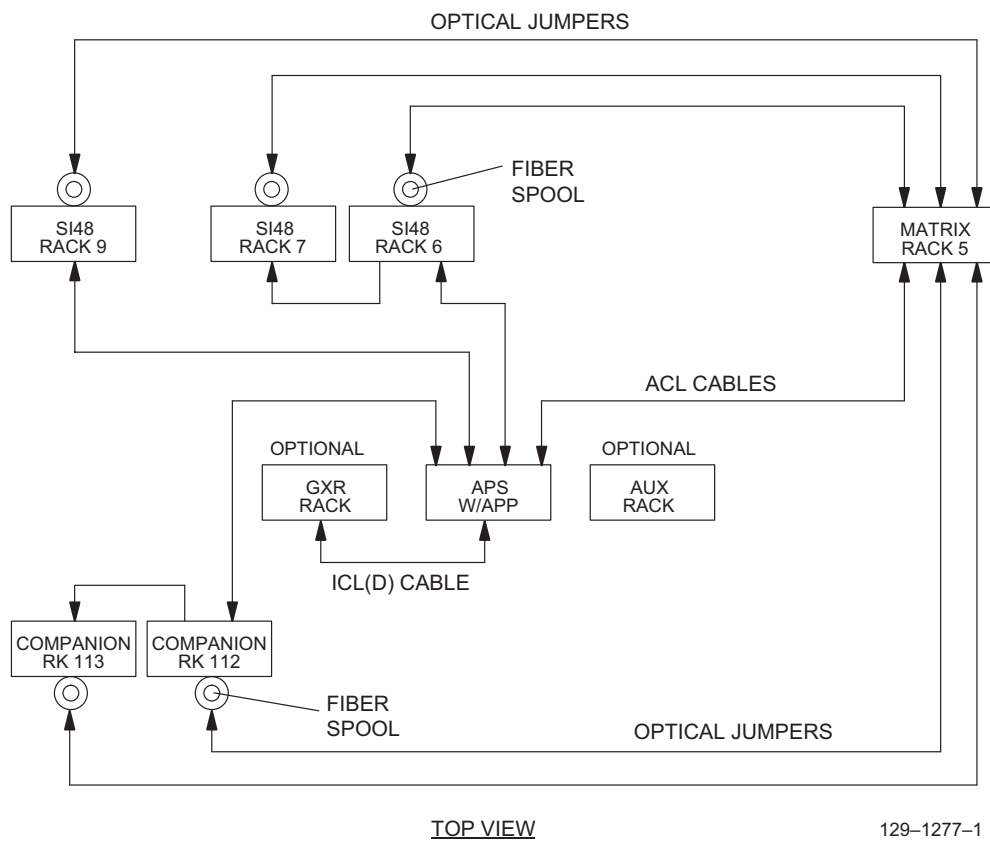
NOTE:
COMPANION I/O RACKS CAN BE IN A SEPARATE ROW,
OR EACH RACK CAN BE AT A REMOTE LOCATION
WITHIN 350 METERS OF THE SWITCH MATRIX.

LEGEND:
■ 10-INCH WIRING SPACE
□ 5-INCH WIRING SPACE
CIO= COMPANION I/O RACK

LEAF	RACK	COMPANION I/O RACK	LEAF	RACK	COMPANION I/O RACK
1	63	112	3	66	118
	64	113		67	119
	65	114		68	120
EXPANSION 1	72	124	EXPANSION 3	78	130
	73	125		79	131
	74	126		80	132
2	60	115	4	69	121
	61	116		70	122
	62	117		71	123
EXPANSION 2	75	127	EXPANSION 4	81	133
	76	128		82	134
	77	129		83	135
			5	84	136
				85	137
				86	138
			EXPANSION 5	87	139
88	140				
89	141				

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Figure 1-7. Typical LMC 240-Port Layout



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2. NUMBERING SCHEME

EQUIPMENT NUMBERING SCHEME

2.1 The system uses Access Identifier (AID) codes to identify removable equipment modules. Proper AID codes are required to enter commands and to physically locate modules in the system. An AID uses a Module-Rack-Shelf-Slot (N-R-Sh-S) scheme to describe equipment module type, rack location, shelf, and module position, respectively.

- N=Assigned name for the module
- R=Rack number
- Sh=Shelf number in rack
- S=Module position (slot) in shelf

2.2 For example, OPD-1-4-2 identifies the Optical Disk Drive (OPD) in rack 1, shelf 4, OPD position 2.

2.3 Refer to table 2-A for equipment AIDs for 672- through 3360-port systems and table 2-B for rack 5 equipment AIDs for LMC 240 system.

Table 2-A. Equipment Addressing

EQUIPMENT	ADDRESSING	RACK/ SHELF
ACL	ACL-1-2-(9-28, 37-56, 65-84, 93-112)	APS
ACM 101	ACM-1-2-(3-7, 10-14)	APS
CDA 101	CDA-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-3-1	ES
CDB 103	CDB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)	I/O (SI48)
CDB 103	CDB-(6-8, 12-14)-(1, 3)-(1, 2) CDB-9-3-(1, 2) CDB-15-1-(1, 2)	I/O (SI36)
CDB 103	CDB-(2-5, 10, 11, 16, 17, 22, 23, 102, 103)-(1, 3)-(1, 2)	ES/CS
	CID-1-1-(1-12)	APS
ES-27E-2	CIM-1-2-(3-7, 10-14)	APS
CKB	CKB-(1-63, 101-141)-0-(1, 2)	All
ES-37N-1	CPU-1-2-(1, 2)	APS
DSB 101	DSB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)	I/O (SI48)

Table 2-A. Equipment Addressing (cont.)

EQUIPMENT	ADDRESSING	RACK/ SHELF
ES-30D-4 ES-30J-1	DSI-(44-63)-(1-4)-(1-32)	DS1
DSK	DSK-1-3-1 DSK-1-4-2	APS
EOB 201	EOB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2) EOB-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-1-(1-7, 9-15)	I/O, ES
EP3 104, 106, 109, 111, 112, 113	EP3-(6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110)-(1, 3)-(1-18) EP3-(9, 21, 35, 43, 107)-3-(1-18) EP3-(15, 27, 31, 39, 111)-1-(1-18)	I/O (SI48)
EP3 104, 106, 109, 111, 112, 113	EP3-(6-8, 12-14)-(1, 3)-(1-14) EP3-9-3-(1-14) EP3-15-1-(1-14)	I/O (SI36)
ES1 101, 102	ES1-(6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110)-(1, 3)-(1-18) ES1-(9, 21, 35, 43, 107)-3-(1-18) ES1-(15, 27, 31, 39, 111)-1-(1-18)	I/O (SI48)
ES1 101, 102	ES1-(6-8, 12-14)-(1, 3)-(1-14) ES1-9-3-(1-14) ES1-15-1-(1-14)	I/O (SI36)
ES-27B-1	ESA-(44-63)-(1-4)-(1, 2)	DS1
FAN 203, 204	FAN-(1, 101)-0-1 FAN-(2-63, 102-141)-(1, 3)-1	All
FUSE PANEL	FUSE-(2-43, 102-141)-0-(1, 2)	All (except APS)
ES-34A-1	HMU-(44-53)-(1-4)-(1-8)	DS1
ES-27M-1	ICM-1-2-(1, 2, 8, 9)	APS
IOB 101	IOB-(6-8, 12-14)-(1, 3)-(1, 3, 5, 7) IOB-9-3-(1, 3, 5, 7) IOB-15-1-(1, 3, 5, 7)	I/O (SI36)
IPB 101	IPB-(6-9, 12-15, 18-21, 24-43, 104-111)-(1, 3)-(1, 2)	I/O
ES-37E-()	IPU-(44-63)-(1-4)-(1-8)	DS1
ES-33B-4 ES-33D-1	LMU-(44-53)-(1-4)-(1-32)	DS1
ES-29A-1	LT1-1-1-(1-6)	APS
ES-29E-1	LT2-1-1-(1-6)	APS
ES-29D-1	LT4-1-1-(7-16)	APS
ES-29G-1	LT5-1-1-(2-6)	APS

Table 2-A. Equipment Addressing (cont.)

EQUIPMENT	ADDRESSING	RACK/ SHELF
LT8 102	LT8-1-1-(7-16)	APS
M16 201	M16-(2-5, 10, 11, 16, 17, 22, 23)-3-(1-16)	CS, ES
M32 101	M32-(4, 5, 10, 11, 16, 17, 22, 23)-3-(1-16) M32-(102, 103)-3-(5-8, 13-16)	ES
M32 201	M32-(102, 103)-3-(1-4, 9-12)	ES
M40 102	M40-(2, 3)-(1, 3)-(1-16)	CS
MCB 101	MCB-(2, 3)-3-1	CS
O1B 107, 108, 112, 207, 208	O1B-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(2-9, 11-18)	I/O (SI48)
O4M 101, 102, 104, 201, 202, 204, 212	O4M-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(2, 3, 11, 12)	I/O (SI48)
OPD	OPD-1-3-1 OPD-1-4-2	APS
OXB 102	OXB-(44-63)-(1-4)-(1, 2)	DS1
P39 101/102	P39-(6-9, 12-15)-(1, 3)-(1-3)	I/O (SI36)
P39 101/102	P39-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1-3)	I/O (SI48)
P39 101/102	P39-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-1-(1-3) P39-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-3-(1-4)	ES
P56 101	P56-(6-9, 12-15)-(1, 3)-(1-5)	I/O (SI36)
P56 101	P56-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1-5)	I/O (SI48)
P56 101	P56-(2-3)-(1, 3)-(1-4) P56-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-1-(1-5) P56-(4-5, 10, 11, 16, 17, 22, 23, 102, 103)-3-(1-4)	CS, ES
PDU 102	PDU-(2-43, 102-141)-0-1	I/O, CS, ES
ES-30C-1	PRT-(44-63)-(1-4)-(8, 16, 24, 32)	DS1
ES-16C-()	PSF-1-(3, 4)-(1, 2) PSF-(44-63)-(1-4)-(1, 2)	APS, DS1
ES-16G-()	PST-1-(3, 4)-(1, 2)	APS
QUAD	QUAD-(44-63)-(1-4)-(1-4)	DS1
RACK	RACK-(1-63, 101-141)-0-1	APS, I/O, CS, ES, DS1
RDU 101	RDU-(44-63)-0-1	DS1
RPB 101	RPB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)	I/O (SI48)
RSP 111	RSP-(1, 101)-0-1	APS, MDF
S3M 101, 102	S3M-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(4-9, 13-18)	I/O (SI48)
ES-27J-1	SBT-1-2-(1-4)	APS

Table 2-A. Equipment Addressing (cont.)

EQUIPMENT	ADDRESSING	RACK/ SHELF
SHELF	SHELF-(2-43, 102-141)-(1, 3)-1	I/O, CS, ES
ES-27H-1	SIO-1-2-(1, 2, 8, 9)	APS
SPB 102, 103	SPB-(2-43, 102-141)-(1, 3)-(1, 2)	I/O, CS, ES
ES-40C-1	SWI-(44-63)-(1-4)-(1-7, 9-15, 17-23, 25-31)	DS1

Table 2-B. Equipment Addressing for LMC 240 System

EQUIPMENT	ADDRESSING	RACK 5¹
CDB 103	CDB-5-(1, 3)-(1, 2)	Matrix-240
EOB 201	EOB-5-(1, 3)-(1-5)	Matrix-240
MCB 101	MCB-5-(1, 3)-1	Matrix-240
M32 101	M32-5-(1, 3)-(1-3, 6-8)	Matrix-240
M40 101	M40-5-(1, 3)-(4, 5, 9, 10)	Matrix-240
P39 101/102	P39-5-(1, 3)-(1-4)	Matrix-240
P56 101	P56-5-(1, 3)-(1-4)	Matrix-240
LMC 240 MATRIX SHELF	SHELF-5-(1, 3)-1	Matrix-240
SPB 103	SPB-5-(1, 3)-(1, 2)	Matrix-240

[1] In the LMC 240 port configuration, rack 5 is the only rack that has module addressing that is different than addressing for any other size system.

CABLE NUMBERING SCHEME

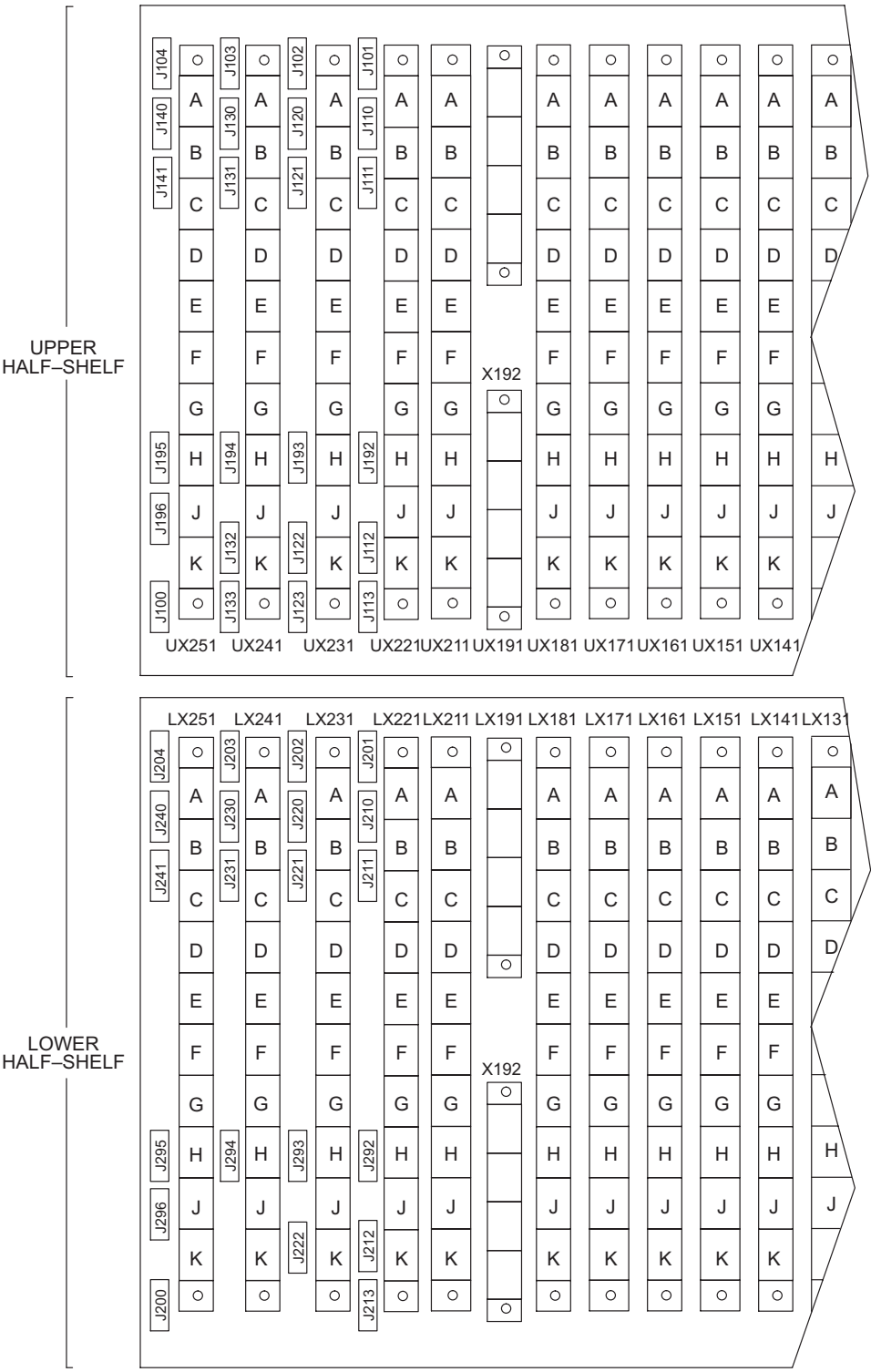
CAUTION Possibility of service interruption. Due to the difficulty of determining whether a specific cable is carrying traffic, only an experienced user should attempt any corrective action involving backplane cables.

2.4 The system also uses AID codes to identify backplane cables. A cable AID uses an N-R-Sh-S scheme as follows:

- N=CBL
- R=Rack number
- Sh=Shelf number in rack
- S=Module position (slot) in shelf or pinblock on backplane

2.5 A module slot location is identified by TX (transmit) or RX (receive) in the S position of the AID. A pinblock is identified by UX (upper half-shelf) or LX (lower half-shelf) in the S position. For example, 2J1RX indicates the second module, first jack, receive, and UX031B indicates upper half-shelf, pinblock X031, jack B of a backplane (see figure 2-1). Refer to table 2-C for cable AIDs for 672- through 3360-port systems.

Figure 2-1. Center-Stage Shelf Backplane Example



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101999

Table 2-C. Cable Addressing

CABLE/ALARM	ADDRESSING	RACK/ SHELF
CABLE	CBL-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-3- (LX052A-LX052H, LX052J, UX052A-UX052H, UX052J, LX082A-LX082H, LX082J, UX082A-UX082H, UX082J, LX112A-LX112H, LX112J, UX112A-UX112H, UX112J, LX142A-LX142H, LX142J, UX142A-UX142H, UX142J)	ES
CABLE	CBL-(2-5, 10, 11, 17, 22, 23, 102, 103)-3- (LX031B-LX031H, LX031J, UX031B-UX031H, UX031J, LX041B-LX041H, LX041J, UX041B-UX041H, UX041J, LX051B-LX051H, LX051J, UX051B-UX051H, UX051J, LX061B-LX061H, LX061J, UX061B-UX061H, UX061J, LX071B-LX071H, LX071J, UX071B-UX071H, UX071J, LX081B-LX081H, LX081J, UX081B-UX081H, UX081J, LX091B-LX091H, LX091J, UX091B-UX091H, UX091J, LX101B-LX101H, LX101J, UX101B-UX101H, UX101J, LX111B-LX111H, LX111J, UX111B-UX111H, UX111J, LX121B-LX121H, LX121J, UX121B-UX121H, UX121J, LX131B-LX131H, LX131J, UX131B-UX131H, UX131J, LX141B-LX141H, LX141J, UX141B-UX141H, UX141J, LX151B-LX151H, LX151J, UX151B-UX151H, UX151J, LX161B-LX161H, LX161J, UX161B-UX161H, UX161J, LX171B-LX171H, LX171J, UX171B-UX171H, UX171J, LX181B-LX181H, LX181J, UX181B-UX181H, UX181J)	CS, ES
CABLE	CBL-(2, 3)-1- (LX031B-LX031H, LX031J, UX031B-UX031H, UX031J, LX041B-LX041H, LX041J, UX041B-UX041H, UX041J, LX051B-LX051H, LX051J, UX051B-UX051H, UX051J, LX061B-LX061H, LX061J, UX061B-UX061H, UX061J, LX071B-LX071H, LX071J, UX071B-UX071H, UX071J, LX081B-LX081H, LX081J, UX081B-UX081H, UX081J, LX091B-LX091H, LX091J, UX091B-UX091H, UX091J, LX101B-LX101H, LX101J, UX101B-UX101H, UX101J, LX111B-LX111H, LX111J, UX111B-UX111H, UX111J, LX121B-LX121H, LX121J, UX121B-UX121H, UX121J, LX131B-LX131H, LX131J, UX131B-UX131H, UX131J, LX141B-LX141H, LX141J, UX141B-UX141H, UX141J, LX151B-LX151H, LX151J, UX151B-UX151H, UX151J, LX161B-LX161H, LX161J, UX161B-UX161H, UX161J, LX171B-LX171H, LX171J, UX171B-UX171H, UX171J, LX181B-LX181H, LX181J, UX181B-UX181H, UX181J)	CS

Table 2-C. Cable Addressing (cont.)

CABLE/ALARM	ADDRESSING	RACK/ SHELF
CABLE	CBL-(2, 3)-(1, 3)- (LX041FCS-LX041HCS, LX041JCS, UX041FCS-UX041HCS, UX041JCS, LX061FCS-LX061HCS, LX061JCS, UX061FCS- UX061HCS, UX061JCS, LX081FCS-LX081HCS, LX081JCS, UX081FCS-UX081HCS, UX081JCS, LX101FCS-LX101HCS, LX101JCS, UX101FCS-UX101HCS, UX101JCS, LX121FCS- LX121HCS, LX121JCS, UX121FCS-UX121HCS, UX121JCS, LX141FCS-LX141HCS, LX141JCS, UX141FCS-UX141HCS, UX141JCS, LX161FCS-LX161HCS, LX161JCS, UX161FCS- UX161HCS, UX161JCS, LX181FCS-LX181HCS, LX181JCS, UX181FCS-UX181HCS, UX181JCS)	CS, CBS (3360 only)
CABLE	CBL-(2, 3)-(1, 3)- (LX041FCB-LX041HCB, LX041JCB, UX041FCB-UX041HCB, UX041JCB, LX061FCB-LX061HCB, LX061JCB, UX061FCB- UX061HCB, UX061JCB, LX081FCB-LX081HCB, LX081JCB, UX081FCB-UX081HCB, UX081JCB, LX101FCB-LX101HCB, LX101JCB, UX101FCB-UX101HCB, UX101JCB, LX121FCB- LX121HCB, LX121JCB, UX121FCB-UX121HCB, UX121JCB, LX141FCB-LX141HCB, LX141JCB, UX141FCB-UX141HCB, UX141JCB, LX161FCB-LX161HCB, LX161JCB, UX161FCB- UX161HCB, UX161JCB, LX181FCB-LX181HCB, LX181JCB, UX181FCB-UX181HCB, UX181JCB)	CS, CBS (3360 only)
CABLE	CBL-{2, 3}-{1, 3}- (LX041FES-LX041HES, LX041JES, UX041FES-UX041HES, UX041JES, LX061FES-LX061HES, LX061JES, UX061FES- UX061HES, UX061JES, LX081FES-LX081HES, LX081JES, UX081FES-UX081HES, UX081JES, LX101FES-LX101HES, LX101JES, UX101FES-UX101HES, UX101JES, LX121FES- LX121HES, LX121JES, UX121FES-UX121HES, UX121JES, LX141FES-LX141HES, LX141JES, UX141FES-UX141HES, UX141JES, LX161FES-LX161HES, LX161JES, UX161FES- UX161HES, UX161JES, LX181FES-LX181HES, LX181JES, UX181FES-UX181HES, UX181JES}	CS, CBS (3360 only)

Table 2-C. Cable Addressing (cont.)

CABLE/ALARM	ADDRESSING	RACK/ SHELF
CABLE	CBL-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-(1)- (XA01B-XA01H, XA01J, XA02B-XA02H, XA02J, XA03B-XA03H, XA03J, XA04B-XA04H, XA04J, XA05B-XA05H, XA05J, XA06B- XA06H, XA06J, XA07B-XA07H, XA07J, XA09B-XA09H, XA09J, XA10B-XA10H, XA10J, XA11B-XA11H, XA11J, XA12B-XA12H, XA12J, XA13B-XA13H, XA13J, XA14B-XA14H, XA14J, XA15B- XA15H, XA15J, J1000A-J1000H, J1001A-J1001H, J1002A- J1002H, J1003A-J1003H, J1004A-J1004H, J1005A-J1005H, J1006A-J1006H, J2000A-J2000H, J2001A-J2001H, J2002A- J2002H, J2003A-J2003H, J2004A-J2004H, J2005A-J2005H, J2006A-J2006H)	EOC
CABLE	CBL-(6-9, 12-15, 18-21, 24-43, 104-111, 112-135, 136-141)-(1, 3)-XA150B-XA150H, XA150J, XA250B-XA250H, XA250J, J1000A- J1000H, J2000A-J2000H)	SI48
CABLE	CBL-(44-63)-(1-4)-(1J1RX, 1J1TX, 2J1RX, 2J1TX)	DS1
CABLE	CBL-(6-8, 12-14)-(1, 3)-(1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA150D, XA151B, XA151D, XA152B, XA152D, XA153B, XA153D, XA250B, XA250D,XA251B,XA251D, XA252B, XA252D, XA253B, XA253D)	SI36
CABLE	CBL-9-3-(1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA150D, XA151B, XA151D, XA152B, XA152D, XA153B, XA153D, XA250B, XA250D, XA251B, XA251D, XA252B, XA252D, XA253B, XA253D)	SI36
CABLE	CBL-15-1-(1J1RX, 1J1TX, 1J2RX, 1J2TX, 3J1RX, 3J1TX, 3J2RX, 3J2TX, 5J1RX, 5J1TX, 5J2RX, 5J2TX, 7J1RX, 7J1TX, 7J2RX, 7J2TX, XA150B, XA150D, XA151B, XA151D, XA152B, XA152D, XA153B,XA153D, XA250B, XA250D, XA251B, XA251D, XA252B, XA252D, XA253B, XA253D)	SI36

FACILITIES NUMBERING SCHEME

2.6 OC-3 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. The OC-3 AID format is OC3-aaaa, where aaaa=1-2240 and is the logical OC-3 port number in the system.

2.7 OC-12 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. The OC-12 AID format is OC12-aaa, where aaa=1-560 and is the logical OC-12 port number in the system.

2.8 EC-1 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. The EC-1 AID format is EC1-aaaa, where aaaa=1-3840 and is the logical EC-1 port number in the system.

2.9 STS-1 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. Three different AID formats are used for STS-1 AIDs.

2.10 The STS-1 constituent embedded in an OC-3 AID format is OC3STS1-aaaa-b, where aaaa=1-2240 and is the logical OC-3 port number in the system and b=1-3 and is the relative STS-1 port number in the OC-3.

2.11 The STS-1 constituent embedded in an OC-12 AID format is OC12STS1-aaa-b-c, where aaa=1-560 and is the logical OC-12 port number in the system and b=1-4 and is the relative STM-1 port number in the OC-12 and c=1-3 is the relative STS-1 port number in the STM-1.

2.12 The STS-1 constituent embedded in an EC-1 AID format is EC1STS1-aaaa, where aaaa=1-3840 and is the logical STS-1 port number in the system.

2.13 STS-3c facilities are referenced by a compound AID value consisting of a 2-part combined facility name/logical identifier. Two AID formats are used for STS-3c AIDs.

2.14 The STS-3c constituent embedded in an OC-3 AID format is OC3STS3C-aaaa, where aaaa=1-2240 and is the logical STS-3c/OC-3 port number in the system.

2.15 The STS-3c constituent embedded in an OC-12 AID format is OC12STS3C-aaa-b, where aaa=1-560 and is the logical OC-12 port number in the system and b=1-4 is the relative STM-1/STS-3c within the OC-12.

2.16 VT1.5 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. Three different AID formats are used for VT1.5 AIDs.

2.17 The VT1.5 constituent embedded in an OC-3 AID format is OC3VT1-aaaa-b-c-d, where aaaa=1-2240 and is the logical port number in the system, b=1-3 and is the relative STS-1 port number in the OC-3, c=1-7 and is the relative VT group number in the STS-1, d=1-4 and is the relative VT1.5 port number in the VT group.

2.18 The VT1.5 constituent embedded in an OC-12 AID format is OC12VT1-aaa-b-c-d-e, where aaa=1-560 and is the logical port number in the system, b=1-4 and is the relative STM-1 port number in the OC-12, c=1-3 and is the relative STS-1 port number within the STM-1, and d=1-7 and is the relative VT group number in the STS-1, e=1-4 and is the relative VT1.5 port number in the VT group.

2.19 The constituent VT1.5 embedded in an EC-1 AID format is EC1VT1-aaaa-b-c, where aaaa=1-3840 and is the logical EC-1/STS-1 port number in the system, b=1-7 and is the relative VT group number in the EC-1/STS-1, c=1-4 and is the relative VT1.5 port number in the VT group.

2.20 DS3 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. Three different AID formats are used for DS3 AIDs.

2.21 The constituent DS3 embedded in an OC-3 AID format is OC3T3-aaaa-b, where aaaa=1-2240 and is the logical port number in the system, and b=1-3 and is the relative STS-1/DS3 port number in the OC-3.

2.22 The constituent DS3 embedded in an EC-1 AID format is EC1T3-aaaa where aaaa=1-3840 and is the logical EC-1/STS-1/DS3 port number in the system.

2.23 The electrical DS3 AID format is T3-aaaa, where aaaa=1-4800 and is the logical DS3 port number in the system.

2.24 DS1 facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. Eight different AID formats are used for DS1 AIDs.

2.25 The constituent DS1 embedded in a DS3-loaded OC-3 AID format is OC3T1-aaaa-b-cc, where aaaa=1-2240 and is the logical OC-3 port number in the system, b=1-3 and is the relative STS-1/DS3 port number in the OC-3, cc=1-28 and is the relative DS1 port number in the DS3.

2.26 The constituent DS1 embedded in a VT1.5-loaded OC-3 AID format is OC3T1-aaaa-b-c-d, where aaaa=1-2240 and is the logical OC-3 port number in the system, b=1-3 and is the relative STS-1 port number in the OC-3, c=1-7 and is the relative VT group number in the STS-1, d=1-4 and is the relative VT1.5/DS1 port number in the VT group.

2.27 The constituent DS1 embedded in a DS3-loaded STM-1 AID format is OC12T1-aaa-b-c-dd, where aaa=1-560 and is the logical OC-12 port number in the system, b=1-4 and is the relative STM-1 port number in the system, cc=1-3 and is the relative STS-1/DS3 port number in the OC-12, dd=1-28 and is the relative DS1 port number in the DS3.

2.28 The constituent DS1 embedded in a VT1.5-loaded OC-12 AID format is OC12T1-aaa-b-c-d-e, where aaa=1-560 and is the logical OC-12 port number in the system, b=1-4 and is the relative STM-1 port number in the OC-12, c=1-3 and is the relative STS-1 port number in the STM-1, d=1-7 and is the relative VT group number in the STS-1, e=1-4 and is the relative VT1.5/DS1 port number in the VT group.

2.29 The constituent DS1 embedded in a DS3-loaded EC-1 AID format is EC1T1-aaaa-bb, where aaaa=1-3840 and is the logical EC-1/STS-1 port number in the system, and bb=1-28 and is the relative DS1 port number in the DS3.

2.30 The constituent DS1 embedded in a VT1.5-loaded EC-1 AID format is EC1T1-aaaa-b-c, where aaaa=3840 and is the logical EC-1/STS-1 port number in the system, b=1-7 and is the relative VT group number in the EC-1/STS-1, and c=1-4 and is the relative VT1.5/DS1 port number in the VT group.

2.31 The constituent DS1 embedded in an electrical DS3 AID format is T3T1-aaaa-bb, where aaaa=1-4800 and is the logical DS3 port number in the system, and bb=1-28 and is the relative DS1 port number in the DS3.

2.32 The electrical DS1 AID format is T1-aaaaa, where aaaaa=1-59392 and is the logical DS1 port number in the system.

2.33 F3 (Fractional T3) facilities are referenced by a compound AID value consisting of a combined facility name/logical identifier. The F3 AID format is T3F3-aaaa-bb, where aaaa=1-4800 and is the logical DS3 port number in the system, and bb=1-14 and is the relative F3 entity number in the DS3

2.34 Stratum synchronization timing reference source entities are referenced by a compound AID value consisting of a combined name/logical identifier. The timing reference source AID format is TMG-a, where a=0, 1 and is the copy number of the timing reference source.

2.35 Control Port (CPORT) entities are referenced by a 1-part numerical AID value, or a 2-part compound numerical AID value. The CPORT AID value is CPORT[,VCNUM], where CPORT=1-12 and is the number of the CPORT in the system, and VCNUM=1-8 and is the virtual channel number if the CPORT is configured as an X.25 port.

2.36 Refer to tables 2-D through 2-F for lists of racks and shelves and their associated port facilities.

MODULE-TO-PORT TRANSLATION

2.37 Use RTRV-EQPT to determine a port number associated with a module. The port number is returned in the PORT= parameter output. For a complete explanation of RTRV-EQPT, refer to the 1631 SX LMC Commands and Messages manual (PN 3AL45392AJ).

PORT-TO-MODULE TRANSLATION

2.38 To establish which module is associated with a port, first use RTRV-CRS to determine the FROM/TO path, then use RTRV-PATH-T1 or RTRV-PATH-VT1 to supply the correct FROM/TO parameters. The equipment AID is returned in the output message. For a complete explanation of RTRV-CRS, RTRV-PATH-T1, and RTRV-PATH-VT1, refer to the 1631 SX LMC Commands and Messages manual (PN 3AL45392AJ).

Table 2-D. Rack-Shelf to Ports (Synchronous SI48)

RACK-SHELF	OC-3 PORTS	OC-12 PORTS	T3 PORTS	EC-1 PORTS
6-1	1-16	1-4	961-1008	1-48
6-3	17-32	5-8	1009-1056	49-96
7-1	33-48	9-12	1057-1104	97-144
7-3	49-64	13-16	1105-1152	145-192
8-1	65-80	17-20	1153-1200	193-240
8-3	81-96	21-24	1201-1248	241-288
9-1	97-112	25-28	Reserved	Reserved
9-3	113-128	29-32	1297-1344	337-384
12-1	129-144	33-36	1345-1392	385-432
12-3	145-160	37-40	1393-1440	433-480
13-1	161-176	41-44	1441-1488	481-528
13-3	177-192	45-48	1489-1536	529-576
14-1	193-208	49-52	1537-1584	577-624

Table 2-D. Rack-Shelf to Ports (Synchronous SI48) (cont.)

RACK-SHELF	OC-3 PORTS	OC-12 PORTS	T3 PORTS	EC-1 PORTS
14-3	209-224	53-56	1585-1632	625-672
15-1	225-240	57-60	1633-1680	673-720
15-3	241-256	61-64	Reserved	Reserved
18-1	257-272	65-68	1729-1776	769-816
18-3	273-288	69-72	1777-1824	817-864
19-1	289-304	73-76	1825-1872	865-912
19-3	305-320	77-80	1873-1920	913-960
20-1	321-336	81-84	1921-1968	961-1008
20-3	337-352	85-88	1969-2016	1009-1056
21-1	353-368	89-92	Reserved	Reserved
21-3	369-384	93-96	2065-2112	1105-1152
24-1	385-400	97-100	2113-2160	1153-1200
24-3	401-416	101-104	2161-2208	1201-1248
25-1	417-432	105-108	2209-2256	1249-1296
25-3	433-448	109-112	2257-2304	1297-1344
26-1	449-464	113-116	2305-2352	1345-1392
26-3	465-480	117-120	2353-2400	1393-1440
27-1	481-496	121-124	2401-2448	1441-1488
27-3	497-512	125-128	Reserved	Reserved
28-1	513-528	129-132	2497-2544	1537-1584
28-3	529-544	133-136	2545-2592	1585-1632
29-1	545-560	137-140	2593-2640	1633-1680
29-3	561-576	141-144	2641-2688	1681-1728
30-1	577-592	145-148	2689-2736	1729-1776
30-3	593-608	149-152	2737-2784	1777-1824
31-1	609-624	153-156	2785-2832	1825-1872
31-3	625-640	157-160	Reserved	Reserved
32-1	641-656	161-164	2881-2928	1921-1968
32-3	657-672	165-168	2929-2976	1969-2016
33-1	673-688	169-172	2977-3024	2017-2064
33-3	689-704	173-176	3025-3072	2065-2112
34-1	705-720	177-180	3073-3120	2113-2160
34-3	721-736	181-184	3121-3168	2161-2208
35-1	737-752	185-188	Reserved	Reserved
35-3	753-768	189-192	3217-3264	2257-2304

Table 2-D. Rack-Shelf to Ports (Synchronous SI48) (cont.)

RACK-SHELF	OC-3 PORTS	OC-12 PORTS	T3 PORTS	EC-1 PORTS
36-1	769-784	193-196	3265-3312	2305-2352
36-3	785-800	197-200	3313-3360	2353-2400
37-1	801-816	201-204	3361-3408	2401-2448
37-3	817-832	205-208	3409-3456	2449-2496
38-1	833-848	209-212	3457-3504	2497-2544
38-3	849-864	213-216	3505-3552	2545-2592
39-1	865-880	217-220	3553-3600	2593-2640
39-3	881-896	221-224	Reserved	Reserved
40-1	897-912	225-228	3649-3696	2689-2736
40-3	913-928	229-232	3697-3744	2737-2784
41-1	929-944	233-236	3745-3792	2785-2832
41-3	945-960	237-240	3793-3840	2833-2880
42-1	961-976	241-244	3841-3888	2881-2928
42-3	977-992	245-248	3889-3936	2929-2976
43-1	993-1008	249-252	Reserved	Reserved
43-3	1009-1024	253-256	3985-4032	3025-3072
104-1	1025-1040	257-260	4033-4080	3073-3120
104-3	1041-1056	261-264	4081-4128	3121-3168
105-1	1057-1072	265-268	4129-4176	3169-3216
105-3	1073-1088	269-272	4177-4224	3217-3264
106-1	1089-1104	273-276	4225-4272	3265-3312
106-3	1105-1120	277-280	4273-4320	3313-3360
107-1	1121-1136	281-284	Reserved	Reserved
107-3	1137-1152	285-288	4369-4416	3409-3456
108-1	1153-1168	289-292	4417-4464	3457-3504
108-3	1169-1184	293-296	4465-4512	3505-3552
109-1	1185-1200	297-300	4513-4560	3553-3600
109-3	11201-1216	301-304	4561-4608	3601-3648
110-1	1217-1232	305-308	4609-4656	3649-3696
110-3	1233-1248	309-312	4657-4704	3697-3744
111-1	1249-1264	313-316	4705-4752	3745-3792
111-3	1265-1280	317-320	Reserved	Reserved
112-1	1281-1296	321-324	Not Used	Not Used
112-3	1297-1312	325-328	Not Used	Not Used
113-1	1313-1328	329-332	Not Used	Not Used

Table 2-D. Rack-Shelf to Ports (Synchronous SI48) (cont.)

RACK-SHELF	OC-3 PORTS	OC-12 PORTS	T3 PORTS	EC-1 PORTS
113-3	1329-1344	333-336	Not Used	Not Used
114-1	1345-1360	337-340	Not Used	Not Used
114-3	1361-1376	341-344	Not Used	Not Used
115-1	1377-1392	345-348	Not Used	Not Used
115-3	1393-1408	349-352	Not Used	Not Used
116-1	1409-1424	353-356	Not Used	Not Used
116-3	1425-1440	357-360	Not Used	Not Used
117-1	1441-1456	361-364	Not Used	Not Used
117-3	1457-1472	365-368	Not Used	Not Used
118-1	1473-1488	369-372	Not Used	Not Used
118-3	1489-1504	373-376	Not Used	Not Used
119-1	1505-1520	377-380	Not Used	Not Used
119-3	1521-1536	381-384	Not Used	Not Used
120-1	1537-1552	385-388	Not Used	Not Used
120-3	1553-1568	389-392	Not Used	Not Used
121-1	1569-1584	393-396	Not Used	Not Used
121-3	1585-1600	397-400	Not Used	Not Used
122-1	1601-1616	401-404	Not Used	Not Used
122-3	1617-1632	405-408	Not Used	Not Used
123-1	1633-1648	409-412	Not Used	Not Used
123-3	1649-1664	413-416	Not Used	Not Used
124-1	1665-1680	417-420	Not Used	Not Used
124-3	1681-1696	421-424	Not Used	Not Used
125-1	1697-1712	425-428	Not Used	Not Used
125-3	1713-1728	429-432	Not Used	Not Used
126-1	1729-1744	433-436	Not Used	Not Used
126-3	1745-1760	437-440	Not Used	Not Used
127-1	1761-1776	441-444	Not Used	Not Used
127-3	1777-1792	445-448	Not Used	Not Used
128-1	1793-1808	449-452	Not Used	Not Used
128-3	1809-1824	453-456	Not Used	Not Used
129-1	1825-1840	457-460	Not Used	Not Used
129-3	1841-1856	461-464	Not Used	Not Used
130-1	1857-1872	465-468	Not Used	Not Used
130-3	1873-1888	469-472	Not Used	Not Used

Table 2-D. Rack-Shelf to Ports (Synchronous SI48) (cont.)

RACK-SHELF	OC-3 PORTS	OC-12 PORTS	T3 PORTS	EC-1 PORTS
131-1	1889-1904	473-476	Not Used	Not Used
131-3	1905-1920	477-480	Not Used	Not Used
132-1	1921-1936	481-484	Not Used	Not Used
132-3	1937-1952	485-488	Not Used	Not Used
133-1	1953-1968	489-492	Not Used	Not Used
133-3	1969-1984	493-496	Not Used	Not Used
134-1	1985-2000	497-500	Not Used	Not Used
134-3	2001-2016	501-504	Not Used	Not Used
135-1	2017-2032	505-508	Not Used	Not Used
135-3	2033-2048	509-512	Not Used	Not Used
136-1	2049-2064	513-516	Not Used	Not Used
136-3	2065-2080	517-520	Not Used	Not Used
137-1	2081-2096	521-524	Not Used	Not Used
137-3	2097-2112	525-528	Not Used	Not Used
138-1	2113-2128	529-532	Not Used	Not Used
138-3	2129-2144	533-536	Not Used	Not Used
139-1	2145-2160	537-540	Not Used	Not Used
139-3	2161-2176	541-544	Not Used	Not Used
140-1	2177-2192	545-548	Not Used	Not Used
140-3	2193-2208	549-552	Not Used	Not Used
141-1	2209-2224	553-556	Not Used	Not Used
141-3	2225-2240	557-560	Not Used	Not Used

Table 2-E. Rack-Shelf to Ports (Synchronous SI36)

RACK-SHELF	T3 PORTS	EC-1 PORTS
6-1	961-996	1-36
6-3	997-1032	37-72
7-1	1057-1092	97-132
7-3	1093-1128	133-168
8-1	1153-1188	193-228
8-3	1189-1224	229-264
9-3	1285-1320	325-360
12-1	1345-1380	385-420
12-3	1381-1416	421-456
13-1	1441-1476	481-516

Table 2-E. Rack-Shelf to Ports (Synchronous SI36) (cont.)

RACK-SHELF	T3 PORTS	EC-1 PORTS
13-3	1477-1512	517-552
14-1	1537-1572	577-612
14-3	1573-1608	613-648
15-1	1633-1668	673-708

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
44-1-1	1-2	1-56
44-1-2	3-4	65-120
44-1-3	5-6	129-184
44-1-4	7-8	193-248
44-2-1	9-10	257-312
44-2-2	11-12	321-376
44-2-3	13-14	385-440
44-2-4	15-16	449-504
44-3-1	17-18	513-568
44-3-2	19-20	577-632
44-3-3	21-22	641-696
44-3-4	23-24	705-760
44-4-1	25-26	769-824
44-4-2	27-28	833-888
44-4-3	29-30	897-952
44-4-4	31-32 (33-96 not used)	961-1016 (1025-3072 not used)
45-1-1	97-98	3073-3128
45-1-2	99-100	3137-3192
45-1-3	101-102	3201-3256
45-1-4	103-104	3265-3320
45-2-1	105-106	3329-3384
45-2-2	107-108	3393-3448
45-2-3	109-110	3457-3512
45-2-4	111-112	3521-3576
45-3-1	113-114	3585-3640
45-3-2	115-116	3649-3704
45-3-3	117-118	3713-3768
45-3-4	119-120	3777-3832

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
45-4-1	121-122	3841-3896
45-4-2	123-124	3905-3960
45-4-3	125-126	3969-4024
45-4-4	127-128 (129-192 not used)	4033-4088 (4097-6144 not used)
46-1-1	193-194	6145-6200
46-1-2	195-196	6209-6264
46-1-3	197-198	6273-6328
46-1-4	199-200	6337-6392
46-2-1	201-202	6401-6456
46-2-2	203-204	6465-6520
46-2-3	205-206	6529-6584
46-2-4	207-208	6593-6648
46-3-1	209-210	6657-6712
46-3-2	211-212	6721-6776
46-3-3	213-214	6785-6840
46-3-4	215-216	6849-6904
46-4-1	217-218	6913-6968
46-4-2	219-220	6977-7032
46-4-3	221-222	7041-7096
46-4-4	223-224 (225-288 not used)	7105-7160 (7169-9216 not used)
47-1-1	289-290	9217-9272
47-1-2	291-292	9281-9336
47-1-3	293-294	9345-9400
47-1-4	295-296	9409-9464
47-2-1	297-298	9473-9528
47-2-2	299-300	9537-9592
47-2-3	301-302	9601-9656
47-2-4	303-304	9665-9720
47-3-1	305-306	9729-9784
47-3-2	307-308	9793-9848
47-3-3	309-310	9857-9912
47-3-4	311-312	9921-9976
47-4-1	313-314	9985-10040
47-4-2	315-316	10049-10104
47-4-3	317-318	10113-10168

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
47-4-4	319-320 (321-384 not used)	10177- 10232 (10241-12288 not used)
48-1-1	385-386	12289-12344
48-1-2	387-388	12353-12408
48-1-3	389-390	12417-12472
48-1-4	391-392	12481-12536
48-2-1	393-394	12545-12600
48-2-2	395-396	12609-12664
48-2-3	397-398	12673-12728
48-2-4	399-400	12737-12792
48-3-1	401-402	12801-12856
48-3-2	403-404	12865-12920
48-3-3	405-406	12929-12984
48-3-4	407-408	12993-13048
48-4-1	409-410	13057-13112
48-4-2	411-412	13121-13176
48-4-3	413-414	13185-13240
48-4-4	415-416 (417-480 not used)	13249-13304 (13313-15360 not used)
49-1-1	481-482	15361-15416
49-1-2	483-484	15425-15480
49-1-3	485-486	15489-15544
49-1-4	487-488	15553-15608
49-2-1	489-490	15617-15672
49-2-2	491-492	15681-15736
49-2-3	493-494	15745-15800
49-2-4	495-496	15809-15864
49-3-1	497-498	15873-15928
49-3-2	499-500	15937-15992
49-3-3	501-502	16001-16056
49-3-4	503-504	16065-16120
49-4-1	505-506	16129-16184
49-4-2	507-508	16193-16248
49-4-3	509-510	16257-16312
49-4-4	511-512 (513-576 not used)	16321-16376 (16385-18432 not used)

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
50-1-1	577-578	18433-18488
50-1-2	579-580	18497-18552
50-1-3	581-582	18561-18616
50-1-4	583-584	18625-18680
50-2-1	585-586	18689-18744
50-2-2	587-588	18753-18808
50-2-3	589-590	18817-18872
50-2-4	591-592	18881-18936
50-3-1	593-594	18945-19000
50-3-2	595-596	19009-19064
50-3-3	597-598	19073-19128
50-3-4	599-600	19137-19192
50-4-1	601-602	19201-19256
50-4-2	603-604	19265-19320
50-4-3	605-606	19329-19384
50-4-4	607-608 (609-672 not used)	19393-19448 (19447-21504 not used)
51-1-1	673-674	21505-21560
51-1-2	675-676	21569-21624
51-1-3	677-678	21633-21688
51-1-4	679-680	21697-21752
51-2-1	681-682	21761-21816
51-2-2	683-684	21825-21880
51-2-3	685-686	21889-21944
51-2-4	687-688	21953-22008
51-3-1	689-690	22017-22072
51-3-2	691-692	22081-22136
51-3-3	693-694	22145-22200
51-3-4	695-696	22209-22264
51-4-1	697-698	22273-22328
51-4-2	699-700	22337-22392
51-4-3	701-702	22401-22456
51-4-4	703-704 (705-768 not used)	22465-22520 (22529-24576 not used)
52-1-1	769-770	24577-24632

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
52-1-2	771-772	24641-24696
52-1-3	773-774	24705-24760
52-1-4	775-776	24769-24824
52-2-1	777-778	24833-24888
52-2-2	779-780	24897-24952
52-2-3	781-782	24961-25016
52-2-4	783-784	25025-25080
52-3-1	785-786	25089-25144
52-3-2	787-788	25153-25208
52-3-3	789-790	25217-25272
52-3-4	791-792	25281-25336
52-4-1	793-794	25345-25400
52-4-2	795-796	25409-25464
52-4-3	797-798	25473-25528
52-4-4	799-800 (801-864 not used)	25537-25592 (25601-27648 not used)
53-1-1	865-866	27649-27704
53-1-2	867-868	27713-27768
53-1-3	869-870	27777-27832
53-1-4	871-872	27841-27896
53-2-1	873-874	27905-27960
53-2-2	875-876	27969-28024
53-2-3	877-878	28033-28088
53-2-4	879-880	28097-28152
53-3-1	881-882	28161-28216
53-3-2	883-884	28225-28280
53-3-3	885-886	28289-28344
53-3-4	887-888	28353-28408
53-4-1	889-890	28417-28472
53-4-2	891-892	28481-28536
53-4-3	893-894	28545-28600
53-4-4	895-896 (897-960 not used)	28609-28664 (28665-30720 not used)
54-1-1	Not used	30721-30776
54-1-2	Not used	30785-30840

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
54-1-3	Not used	30849-30904
54-1-4	Not used	30913-30968
54-2-1	Not used	30977-31032
54-2-2	Not used	31041-31096
54-2-3	Not used	31105-31160
54-2-4	Not used	31169-31224
54-3-1	Not used	31233-31288
54-3-2	Not used	31297-31352
54-3-3	Not used	31361-31416
54-3-4	Not used	31425-31480
54-4-1	Not used	31489-31544
54-4-2	Not used	31553-31608
54-4-3	Not used	31617-31672
54-4-4	Not used	31681-31736 (31745-33792 not used)
55-1-1	Not used	33793-33848
55-1-2	Not used	33857-33912
55-1-3	Not used	33921-33976
55-1-4	Not used	33985-34040
55-2-1	Not used	34049-34104
55-2-2	Not used	34113-34168
55-2-3	Not used	34177-34232
55-2-4	Not used	34241-34296
55-3-1	Not used	34305-34360
55-3-2	Not used	34369-34424
55-3-3	Not used	34433-34488
55-3-4	Not used	34497-34552
55-4-1	Not used	34561-34616
55-4-2	Not used	34625-34680
55-4-3	Not used	34689-34744
55-4-4	Not used	34753-34808 (34817-36864 not used)
56-1-1	Not used	36865-36920
56-1-2	Not used	36929-36984
56-1-3	Not used	36993-37048

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
56-1-4	Not used	37057-37112
56-2-1	Not used	37121-37176
56-2-2	Not used	37185-37240
56-2-3	Not used	37249-37304
56-2-4	Not used	37313-37368
56-3-1	Not used	37377-37432
56-3-2	Not used	37441-37496
56-3-3	Not used	37505-37560
56-3-4	Not used	37569-37624
56-4-1	Not used	37633-37688
56-4-2	Not used	37697-37752
56-4-3	Not used	37761-37816
56-4-4	Not used	37825-37880 (37889-39936 not used)
57-1-1	Not used	39937-39992
57-1-2	Not used	40001-40056
57-1-3	Not used	40065-40120
57-1-4	Not used	40129-40184
57-2-1	Not used	40193-40248
57-2-2	Not used	40257-40312
57-2-3	Not used	40321-40376
57-2-4	Not used	40385-40440
57-3-1	Not used	40449-40504
57-3-2	Not used	40513-40568
57-3-3	Not used	40577-40632
57-3-4	Not used	40641-40696
57-4-1	Not used	40705-40760
57-4-2	Not used	40769-40824
57-4-3	Not used	40833-40888
57-4-4	Not used	40897-40952 (40961-43008 not used)
58-1-1	Not used	43009-43064
58-1-2	Not used	43073-43128
58-1-3	Not used	43137-43192
58-1-4	Not used	43201-43256

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
58-2-1	Not used	43265-43320
58-2-2	Not used	43329-43384
58-2-3	Not used	43393-43448
58-2-4	Not used	43457-43512
58-3-1	Not used	43521-43576
58-3-2	Not used	43585-43640
58-3-3	Not used	43649-43704
58-3-4	Not used	43713-43768
58-4-1	Not used	43777-43832
58-4-2	Not used	43841-43896
58-4-3	Not used	43905-43960
58-4-4	Not used	43969-44024 (44033-46080 not used)
59-1-1	Not used	46081-46136
59-1-2	Not used	46145-46200
59-1-3	Not used	46209-46264
59-1-4	Not used	46273-46328
59-2-1	Not used	46337-46392
59-2-2	Not used	46401-46456
59-2-3	Not used	46465-46520
59-2-4	Not used	46529-46584
59-3-1	Not used	46593-46648
59-3-2	Not used	46657-46712
59-3-3	Not used	46721-46776
59-3-4	Not used	46785-46840
59-4-1	Not used	46849-46904
59-4-2	Not used	46913-46968
59-4-3	Not used	46977-47032
59-4-4	Not used	47041-47096 (47105-49152 not used)
60-1-1	Not used	49153-49208
60-1-2	Not used	49217-49272
60-1-3	Not used	49281-49336
60-1-4	Not used	49345-49400
60-2-1	Not used	49409-49464

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
60-2-2	Not used	49473-49528
60-2-3	Not used	49537-49592
60-2-4	Not used	49601-49056
60-3-1	Not used	49665-49720
60-3-2	Not used	49729-49784
60-3-3	Not used	49793-49848
60-3-4	Not used	49857-49912
60-4-1	Not used	49921-49976
60-4-2	Not used	49985-50040
60-4-3	Not used	50049-50104
60-4-4	Not used	50113-50168 (50177-52224 not used)
61-1-1	Not used	52225-52280
61-1-2	Not used	53389-52344
61-1-3	Not used	52353-52408
61-1-4	Not used	52417-52472
61-2-1	Not used	52481-52436
61-2-2	Not used	52545-52600
61-2-3	Not used	52609-52664
61-2-4	Not used	52673-52728
61-3-1	Not used	52737-52792
61-3-1	Not used	52801-52856
61-3-2	Not used	52865-52920
61-3-3	Not used	52929-52984
61-3-4	Not used	52993-53048
61-4-2	Not used	53057-53112
61-4-3	Not used	53121-53176
61-4-4	Not used	53185-53240 (53249-55296 not used)
62-1-1	Not used	55297-55352
62-1-2	Not used	55361-55416
62-1-3	Not used	55425-55480
62-1-4	Not used	55489-55544
62-2-1	Not used	55553-55608
62-2-2	Not used	55617-55672

Table 2-F. Rack-Shelf-Quadrant to Ports (Asynchronous)¹ (cont.)

RACK-SHELF-QUAD	T3 PORTS	T1 PORTS
62-2-3	Not used	55681-55736
62-2-4	Not used	55745-55800
62-3-1	Not used	55809-55864
62-3-2	Not used	55873-55928
62-3-3	Not used	55937-55992
62-3-4	Not used	56001-56056
62-4-1	Not used	56065-56120
62-4-2	Not used	56129-56184
62-4-3	Not used	56193-56248
62-4-4	Not used	56257-56312 (56321-58368 not used)
63-1-1	Not used	58369-58424
63-1-2	Not used	58433-58488
63-1-3	Not used	58497-58552
63-1-4	Not used	58561-58616
63-2-1	Not used	58625-58680
63-2-2	Not used	58689-58744
63-2-3	Not used	58753-58808
63-2-4	Not used	58817-58872
63-3-1	Not used	58881-58936
63-3-2	Not used	58945-59000
63-3-3	Not used	59009-59064
63-3-4	Not used	59073-59128
63-4-1	Not used	59137-59192
63-4-2	Not used	59201-59256
63-4-3	Not used	59265-59320
63-4-4	Not used	59329-59384 (59393-61440 not used)

[1] The final eight DS1 ports on each quad are not used. These ports are assigned to the protect card.

ALARMS AND CONDITIONS

2.39 AIDs beginning with G1 or G4 in the N position do not directly refer to cables or equipment and are used for alarm retrievals only. These AIDs are displayed as alarms or conditions when the system detects internal faults in signal paths. Refer to table 2-G for alarms and conditions AIDs for 672-port through 3360-port systems. Refer to table 2-H for alarms and conditions AIDs for LMC 240 systems. Refer to the RTRV-GTI-STATUS command in the 1631 SX LMC Commands and Messages (PN 3AL45392AJ) for further details.

Table 2-G. Path Alarm/Condition Addressing

ALARM/CONDITION ADDRESSING	RACK/ SHELF
G1EOB-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-1-(1-7, 9-15)-(1-16) G1EOB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)-(1-16)	ES, SI48
G1EP3-(6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110)-(1, 3)-(1-18)-(1, 2) G1EP3-(9, 21, 35, 43, 107)-3-(1-18)-(1, 2) G1EP3-(15, 27, 31, 39, 111)-1-(1-18)-(1, 2)	SI48
G1EP3-(6-8, 12-14)-(1, 3)-(1-14)-(1, 2) G1EP3-9-3-(1-14)-(1, 2) G1EP3-15-1-(1-14)-(1, 2)	SI36
G1ES1-(6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110)-(1, 3)-(1-18)-(1, 2) G1ES1-(9, 21, 35, 43, 107)-3-(1-18)-(1, 2) G1ES1-(15, 27, 31, 39, 111)-1-(1-18)-(1, 2)	SI48
G1ES1-(6-8, 12-14)-(1, 3)-(1-14)-(1, 2) G1ES1-9-3-(1-14)-(1, 2) G1ES1-15-1-(1-14)-(1, 2)	SI36
G1IOB-(6-8, 12-14)-(1, 3)-(1, 3, 5, 7)-(1-3, 5-7) G1IOB-9-3-(1, 3, 5, 7)-(1-3, 5-7) G1IOB-15-1-(1, 3, 5, 7)-(1-3, 5-7)	SI36
G1O4M-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(2, 3, 11, 12)-(1, 2)	SI48
G1S3M-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(4-9, 13-18)-(1, 2)	SI48
G1TGR-(6-8, 12-14, 18-20, 24-26, 28-30, 32-34, 36-38, 40-42, 104-106, 108-110)-(1, 3)-(9, 18)-(1, 2) G1TGR-(9, 21, 35, 43, 107)-3-(9, 18)-(1, 2) G1TGR-(15, 27, 31, 39, 111)-1-(9, 18)-(1, 2)	SI48
G1IRPB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)-(1-18)	SI48
G1M16-(2-5, 10, 11, 16, 17, 22, 23)-3-(1-16)-(1-16)	CS, ES
G1M32-(4-5, 10-11, 16-17, 22-23, 102, 103)-3-(1-16)-(1-32)	ES
G1M40-(2, 3)-(1, 3)-(1-16)-(1-32)	CS

Table 2-G. Path Alarm/Condition Addressing (cont.)

ALARM/CONDITION ADDRESSING	RACK/ SHELF
G1MRPB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)-(1-16)	SI48
G1O1B-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(2-9, 11-18)-(1, 2)	SI48
G4EOB-(4, 5, 10, 11, 16, 17, 22, 23, 102, 103)-1-(1-7, 9-15)-(1-4) G4EOB-(6-9, 12-15, 18-21, 24-43, 104-141)-(1, 3)-(1, 2)-(1-4)	ES, SI48
G4IOB-(6-8, 12-14)-(1, 3)-(1, 3, 5, 7)-(1, 2) G4IOB-9-3-(1, 3, 5, 7)-(1, 2) G4IOB-15-1-(1, 3, 5, 7)-(1, 2)	SI36
G4OXB-(44-63)-(1-4)-(1, 2)-1	DS1

Table 2-H. Path Alarm/Condition Addressing for LMC 240 System

ALARM/CONDITION ADDRESSING	RACK 5¹
G1EOB-5-(1, 3)-(1-5)-(1-16)	LMC 240
G1M32-5-(1, 3)-(1-3, 6-8)-(1-32)	LMC 240
G1M40-5-(1, 3)-(4, 5, 9, 10)-(1-32)	LMC 240
G4EOB-5-(1, 3)-(1-5)-(1-4)	LMC 240

[1] In the LMC 240 port configuration, rack 5 is the only rack that has cable alarm addressing that is different than that for any other size system.

3. SYSTEM RACKS

3.1 See figures 3-1 through 3-9 for illustrations of system racks and N-R-Sh-S for equipment modules.

Administrative Processing System Rack

3.2 The Administrative Processing System (APS) rack is equipped with an APS/LTX shelf, two hard disk/optical disk/power shelves, and an optional APP 101 ACL Patch Panel (APP). The APS/LTX shelf contains the APS and Level Translator (LTx) modules that handle command, control, and response interface between the system and the system operator. See figure 3-1.

Center-Stage Rack

3.3 A center-stage rack is equipped with one center-stage shelf in a 1344-port system. A center-stage rack is equipped with two center-stage shelves in a 1345-port to 3360-port system, or if 672-port leaves are in use. The center-stage shelf, which contains top and bottom subassemblies, houses equipment that provides center-stage switching in the 3-stage switching matrix. See figure 3-2.

End-Stage Rack

3.4 An end-stage rack is equipped with one end-stage shelf and an optional Electrical-Optical Converter (EOC) shelf. The end-stage shelf, which contains top and bottom subassemblies, houses equipment that provides first-stage and third-stage switching in the 3-stage switching matrix. The EOC shelf houses equipment that supports remote island applications. See figure 3-3.

LMC 240 Matrix Rack

3.5 The compact LMC 240 provides a reduced footprint while providing up to 240 equivalent DS3 ports. The matrix rack contains copy 1 and copy 0 matrix shelves. Each matrix shelf contains the equipment to perform all three stages of switching and the conversion from optical to electrical and electrical to optical. See figure 3-4.

SI48 Rack

3.6 An SI48 rack is equipped with up to two SI48 shelves. Each SI48 shelf, which contains top and bottom subassemblies, supports up to 48 equivalent DS3 ports. The protect scheme is 1:8 for DS3/STS-1 (see figure 3-5) interface modules and 1+1 or UPSR for OC-3/OC-12 interface modules (see figures 3-6 and 3-7).

3.7 SI48 racks can function as part of a remote facility island. These remote facility islands connect with the system matrix over optical links. Each remote facility island supports up to two remote SI48 racks.

SI36 Rack

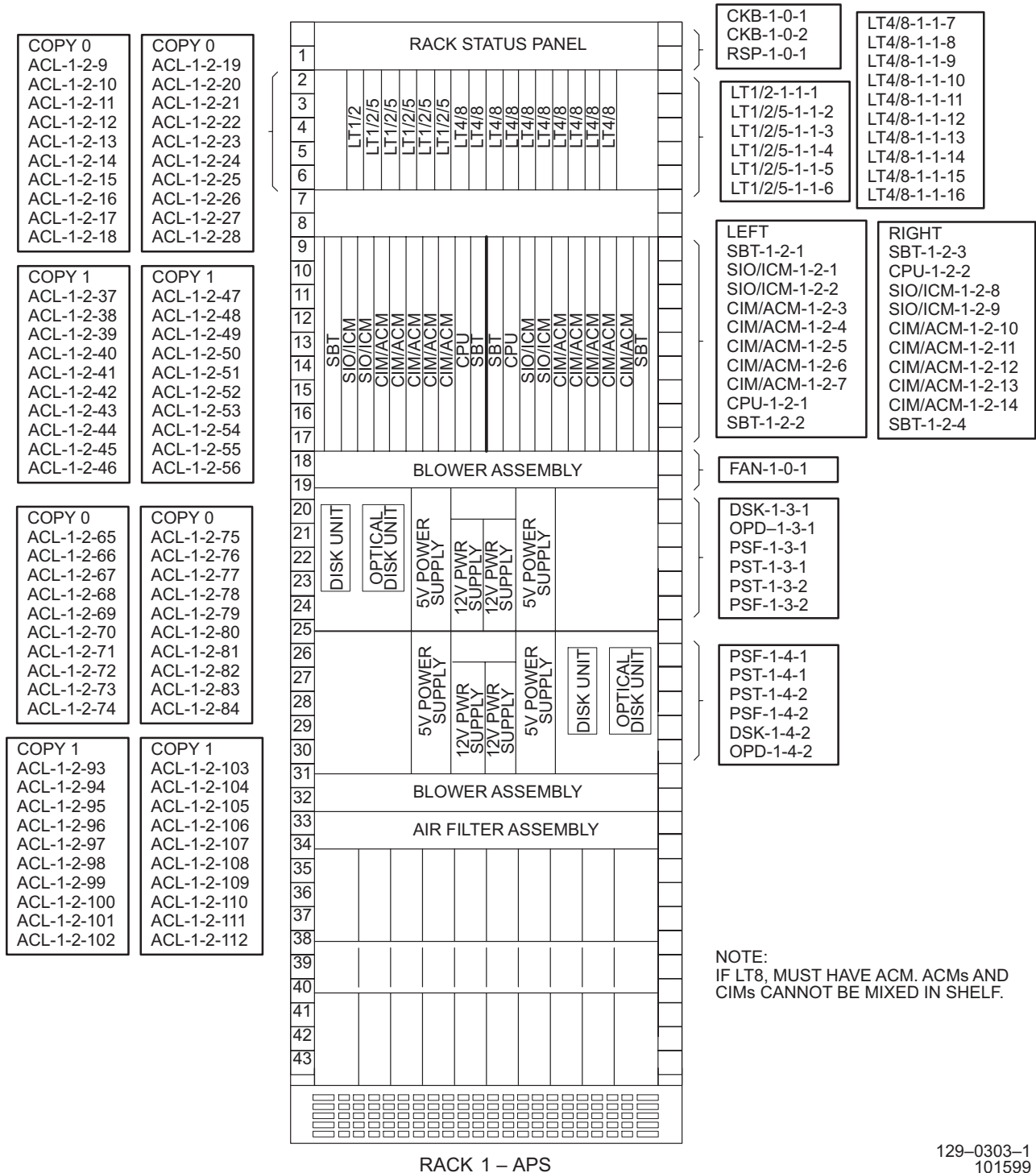
3.8 An SI36 rack is equipped with up to two SI36 shelves. See figure 3-8 for SI36 shelf configuration.

DS1 Rack

3.9 A DS1 rack is equipped with up to four DS1 I/O shelves. Each DS1 I/O shelf is divided into quadrants. Each quadrant supports up to 56 DS1 ports. The protect scheme is 1:7 for DS1 interface circuit packs. See figure 3-9.

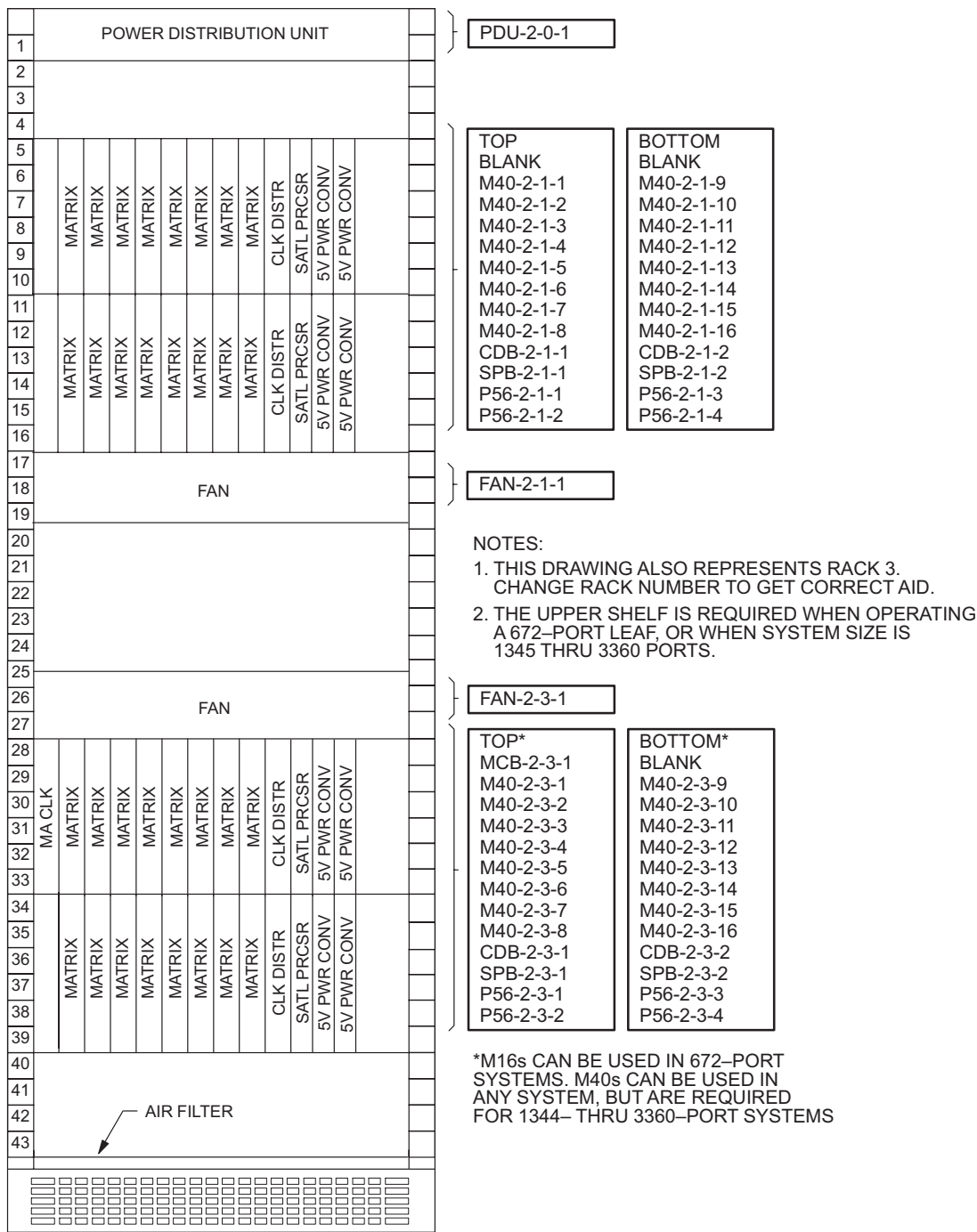
3.10 Each DS1 rack functions as a remote facility island. These remote facility islands connect with the system matrix over optical links. Each remote facility island supports one DS1 rack.

Figure 3-1. APS Rack



129-0303-1
101599

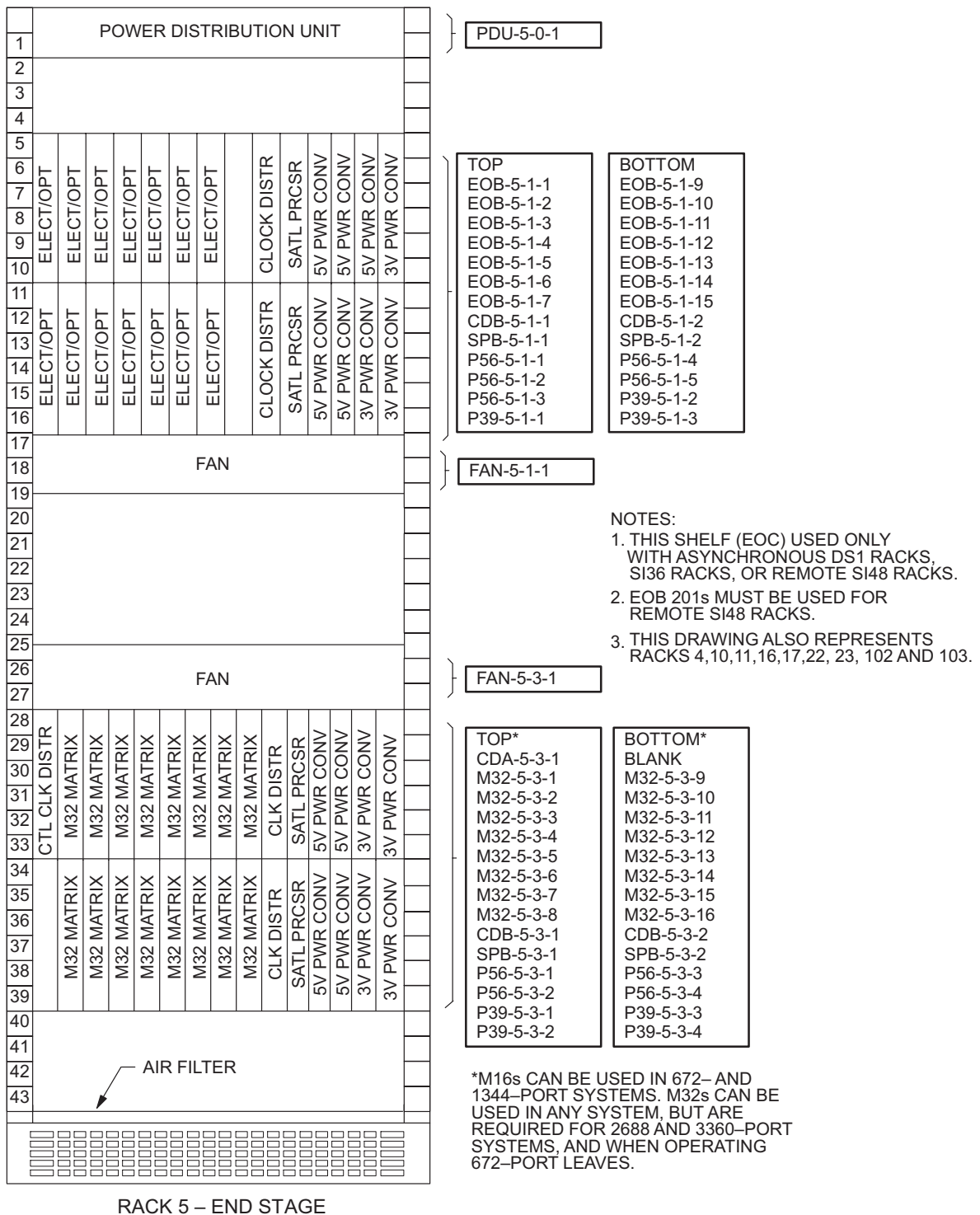
Figure 3-2. Center-Stage Rack



RACK 2 – CENTER STAGE

129-0308-1
020201

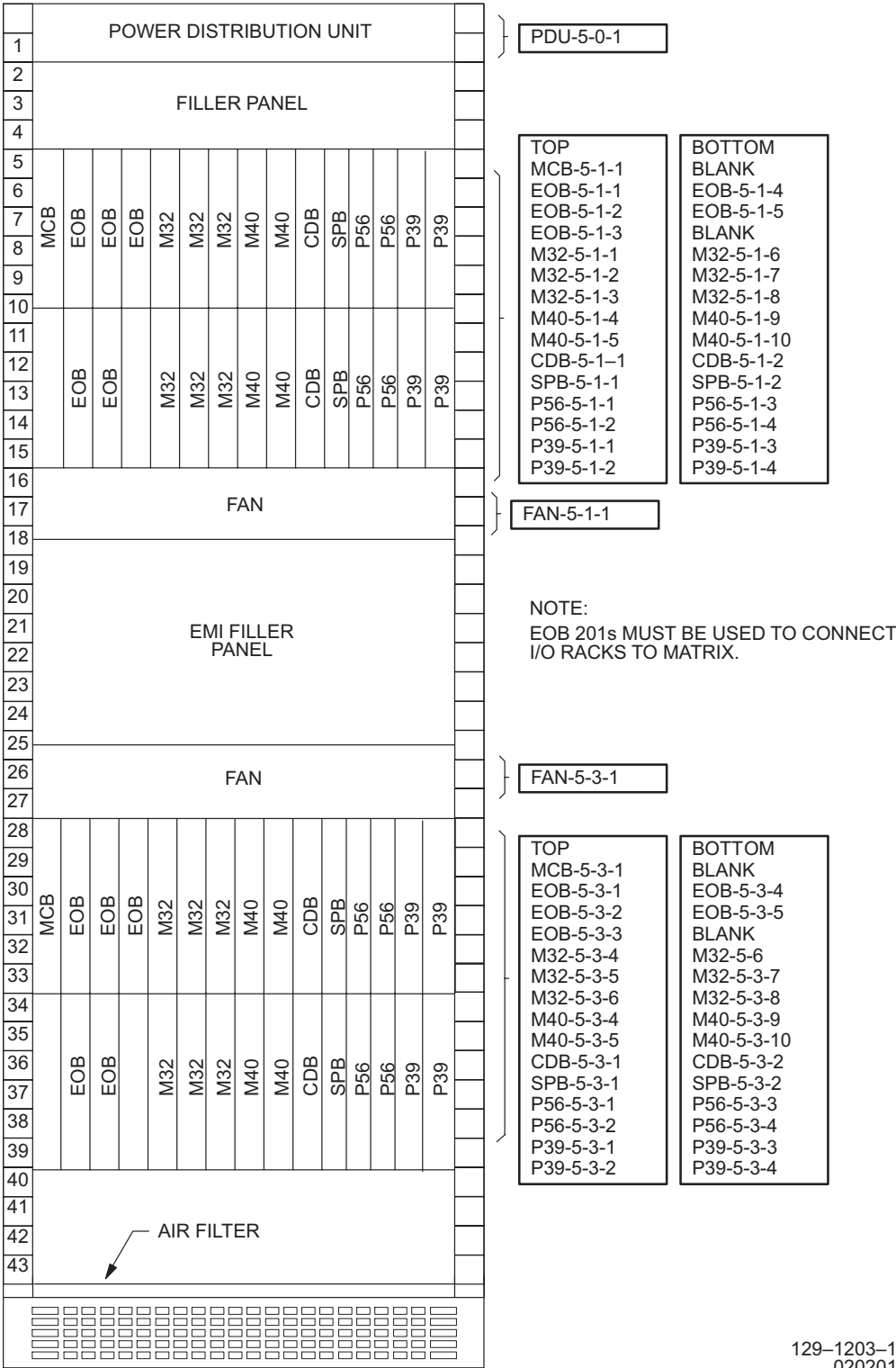
Figure 3-3. End-Stage Rack



RACK 5 – END STAGE

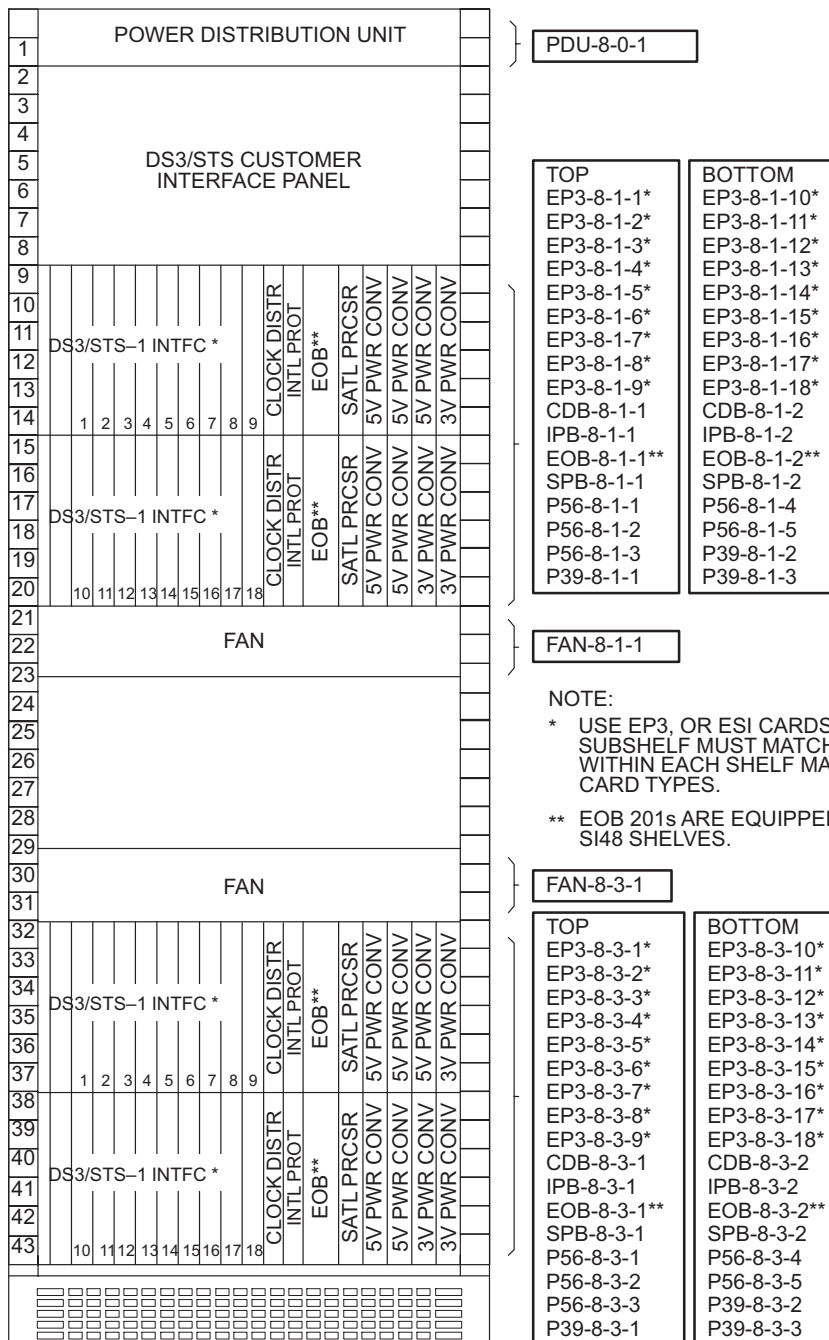
129-0307-1
020201

Figure 3-4. LMC 240 Matrix Rack



129-1203-1
020201

Figure 3-5. Dual SI48 Rack With STS-1, DS3/STS-1



RACK 8 – DUAL SI48

NOTE:
THIS DRAWING ALSO REPRESENTS RACKS 6, 7, 9, 12–15, 18–21, 24–43, AND 104–141.
CHANGE RACK AND SHELF NUMBERS TO GET CORRECT AIDs.

129–0305–1
020201

Figure 3-6. Dual SI48 Rack With OC-12 Companion Shelves

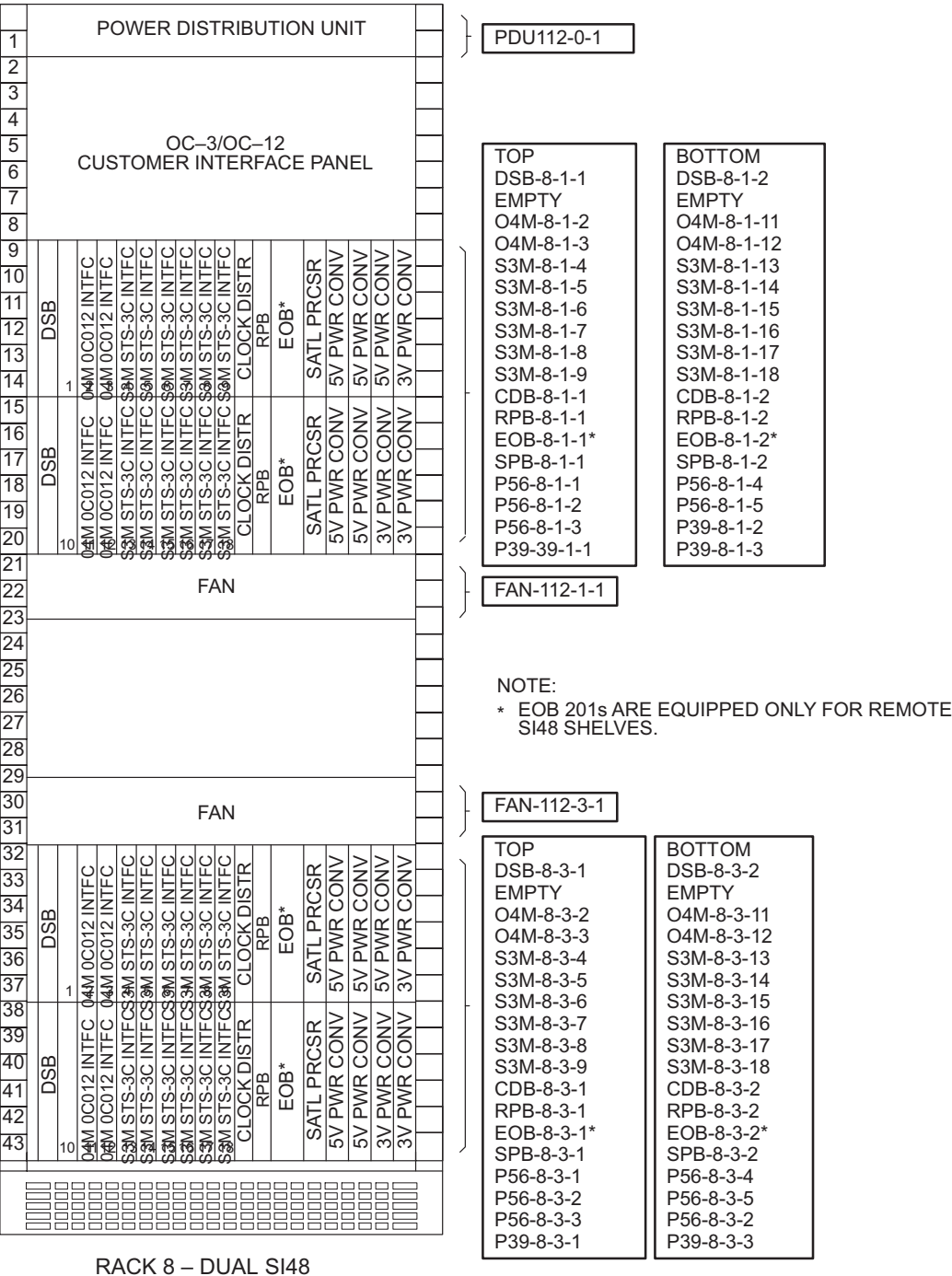
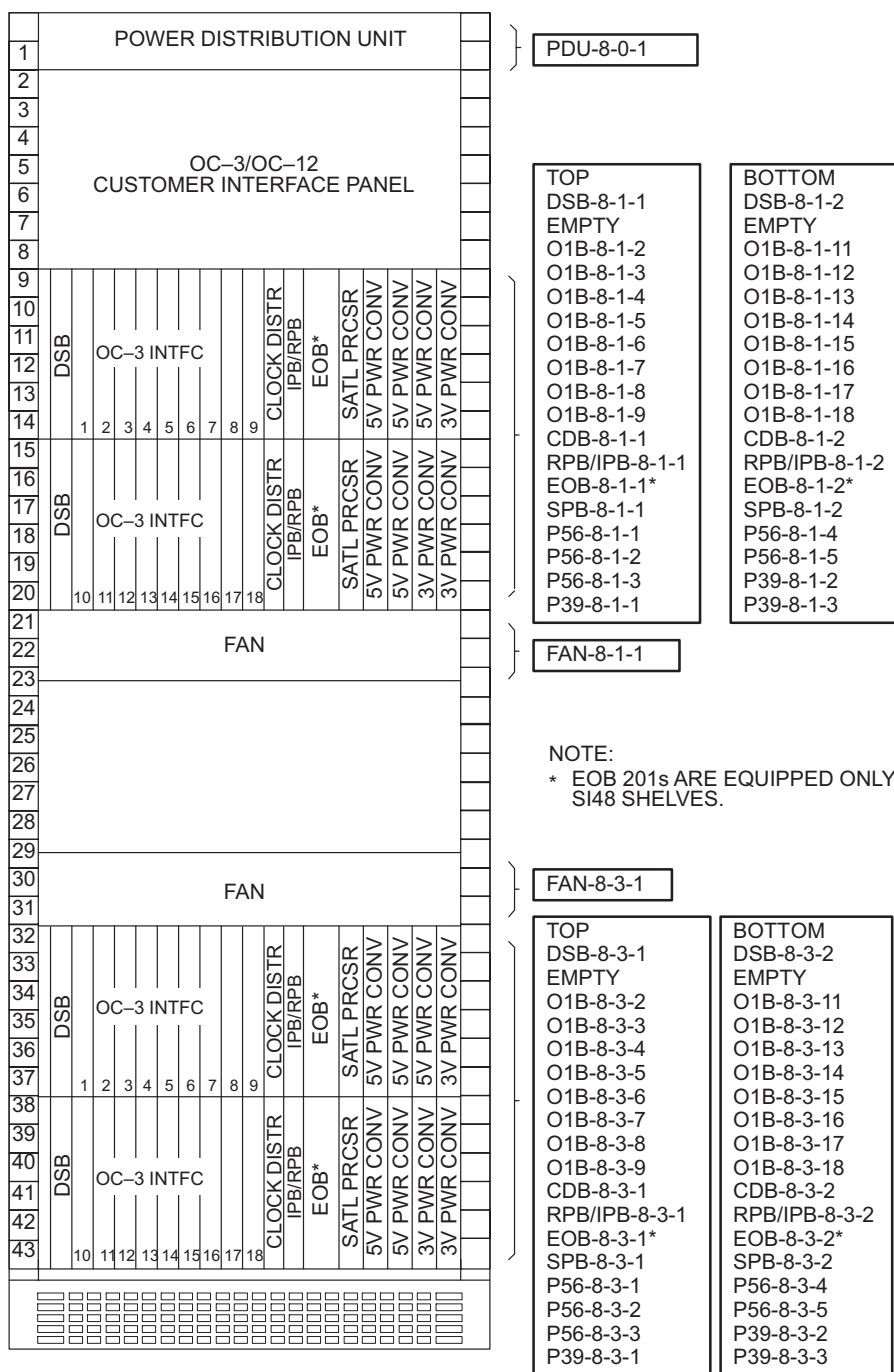


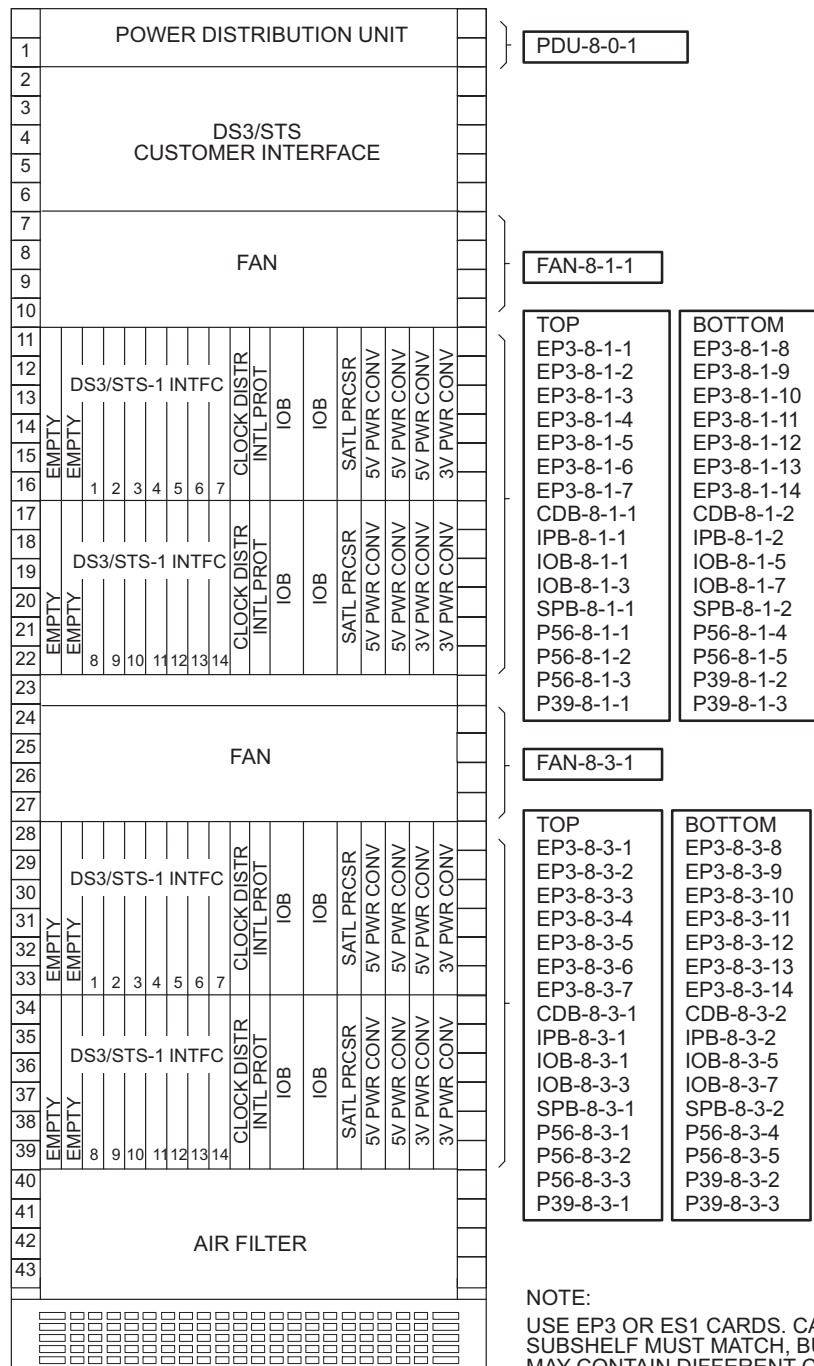
Figure 3-8. Dual SI36 Rack



NOTE:
THIS DRAWING ALSO REPRESENTS RACKS 6, 7, 9, 12–15, 18–21, 24–43 AND 104–141.
CHANGE RACK AND SHELF NUMBERS TO GET CORRECT AIDs.

129–1162–1
020201

Figure 3-9. Mixed (DS1/DS3) Shelf Addressing for I/O Rack



RACK 8 – DUAL SI36

NOTE:
THIS DRAWING ALSO REPRESENTS SI36 RACKS 6, 7, 9, AND 12–14.
RACK 9 HAS SHELF 3 AND RACK 15 HAS SHELF 1.
CHANGE RACK AND SHELF NUMBERS TO GET CORRECT AIDs.

NOTE:
USE EP3 OR ES1 CARDS. CARD TYPES ON EACH
SUBSHELF MUST MATCH, BUT SUBSHELVES
MAY CONTAIN DIFFERENT CARD TYPES.

129–0573–1
020201

4. ACL ASSIGNMENTS

Administration Communication Link (ACL) Addressing

4.1 Some operations (provisioning, deprovisioning, etc.) require addressing of ACL buses. An ACL address also allows all ES-37E Interface Processing Units (IPUs) or Satellite Processors (SPBs) 102/103 on that bus to be addressed as a group. The format for ACL bus addressing is ACL-1-2-Link Number where:

Link Number=[9-28, 37-56, 65-84, 93-112]

This link number is not the physical link number specified in 1631 SX LMC Engineering Support Documentation manual (PN 3AL45396AJ).

4.2 ACL serial bus cables connect shelf IPUs and SPBs to the Administrative Processing System (APS). Refer to table 4-A for ACL bus addresses. The number of ACL buses depends on system size and configuration. Consider each ACL bus as a 2-cable daisy chain, one cable for copy 0 and one for copy 1. Each ACL bus connects from the APS/LTX shelf or APP shelf to the input connector of a center-stage, end-stage, SI48, SI36, or asynchronous Input/Output (I/O) shelf, and then out of that shelf's output connector to the input connector of the next shelf. The output connector of the last shelf in each chain is terminated.

Table 4-A. ACL Bus Addresses

ACL ADDRESS	FUNCTION	LINK COPY
ACL-1-2-9	Center-stage shelf 2-1, 2-3 End-stage shelves 5-1, 5-3, 10-1, 10-3, 16-1, 16-3, 23-1, 23-3, 103-1, and 103-3	0
ACL-1-2-10	Center-stage shelf 3-1, 3-3 End-stage shelves 4-1, 4-3, 11-1, 11-3, 17-1, 17-3, 22-1, 22-3, 102-1, and 102-3	0
ACL-1-2-11	SI48/SI36 shelves 6-1, 6-3, 7-1, and 7-3	0
ACL-1-2-12	SI48 shelves 8-1, 8-3, 9-1, 9-3, 104-1, and 104-3	0
ACL-1-2-12	SI36 shelves 8-1, 8-3, 9-3	0
ACL-1-2-13	Asynchronous shelves 44-(1-4)	0
ACL-1-2-14	Asynchronous shelves 45-(1-4)	0
ACL-1-2-15	SI48 shelves 12-1, 12-3, 13-1, 13-3, 136-1, and 136-3	0
ACL-1-2-15	SI36 shelves 12-1, 12-3, 13-1, 13-3	0

Table 4-A. ACL Bus Addresses (cont.)

ACL ADDRESS	FUNCTION	LINK COPY
ACL-1-2-16	SI48/SI36 shelves 14-1, 14-3, 15-1, 15-3, 105-1, and 105-3	0
ACL-1-2-16	SI36 shelves 14-1, 14-3, 15-1	0
ACL-1-2-17	SI48 shelves 18-1, 18-3, 19-1, 19-3, 137-1, and 137-3	0
ACL-1-2-18	SI48 shelves 20-1, 20-3, 21-1, 21-3, 106-1, and 106-3	0
ACL-1-2-19	SI48 shelves 24-1, 24-3, 25-1, 25-3, 107-1, and 107-3	0
ACL-1-2-20	SI48 shelves 26-1, 26-3, 27-1, 27-3, 138-1, and 138-3	0
ACL-1-2-21	Asynchronous shelves 46-(1-4)	0
ACL-1-2-22	Asynchronous shelves 47-(1-4)	0
ACL-1-2-23	Asynchronous shelves 48-(1-4)	0
ACL-1-2-24	Asynchronous shelves 49-(1-4)	0
ACL-1-2-25	Asynchronous shelves 50-(1-4)	0
ACL-1-2-26	Asynchronous shelves 51-(1-4)	0
ACL-1-2-27	Asynchronous shelves 52-(1-4)	0
ACL-1-2-28	Asynchronous shelves 53-(1-4)	0
ACL-1-2-37	Center-stage shelf 2-1, 2-3 End-stage shelves 5-1, 5-3, 10-1, 10-3, 16-1, 16-3, 23-1, 23-3, 103-1, and 103-3	0
ACL-1-2-38	Center-stage shelf 3-1, 3-3 End-stage shelves 4-1, 4-3, 11-1, 11-3, 17-1, 17-3, 22-1, 22-3, 102-1, and 102-3	1
ACL-1-2-39	SI48/SI36 shelves 6-1, 6-3, 7-1, and 7-3	1
ACL-1-2-40	SI48 shelves 8-1, 8-3, 9-1, 9-3, 104-1, and 104-3	1
ACL-1-2-40	SI36 shelves 8-1, 8-3, 9-3	1
ACL-1-2-41	Asynchronous shelves 44-(1-4)	1
ACL-1-2-42	Asynchronous shelves 45-(1-4)	1
ACL-1-2-43	SI48 shelves 12-1, 12-3, 13-1, 13-3, 136-1, and 136-3	1
ACL-1-2-43	SI36 shelves 12-1, 12-3, 13-1, 13-3	1
ACL-1-2-44	SI48 shelves 14-1, 14-3, 15-1, 15-3, 105-1, and 105-3	1
ACL-1-2-44	SI36 shelves 14-1, 14-3, 15-1	1
ACL-1-2-45	SI48 shelves 18-1, 18-3, 19-1, 19-3, 137-1, and 137-3	1
ACL-1-2-46	SI48 shelves 20-1, 20-3, 21-1, 21-3, 106-1, and 106-3	1
ACL-1-2-47	SI48 shelves 24-1, 24-3, 25-1, 25-3, 107-1, and 107-3	1
ACL-1-2-48	SI48 shelves 26-1, 26-3, 27-1, 27-3, 138-1, and 138-3	1
ACL-1-2-49	Asynchronous shelves 46-(1-4)	1
ACL-1-2-50	Asynchronous shelves 47-(1-4)	1

Table 4-A. ACL Bus Addresses (cont.)

ACL ADDRESS	FUNCTION	LINK COPY
ACL-1-2-51	Asynchronous shelves 48-(1-4)	1
ACL-1-2-52	Asynchronous shelves 49-(1-4)	1
ACL-1-2-53	Asynchronous shelves 50-(1-4)	1
ACL-1-2-54	Asynchronous shelves 51-(1-4)	1
ACL-1-2-55	Asynchronous shelves 52-(1-4)	1
ACL-1-2-56	Asynchronous shelves 53-(1-4)	1
ACL-1-2-65	SI48 shelves 28-1, 28-3, 29-1, and 29-3	0
ACL-1-2-66	SI48 shelves 30-1, 30-3, 31-1, 31-3, 108-1, and 108-3	0
ACL-1-2-67	Companion shelves 112-1, 112-3, 113-1, and 113-3	0
ACL-1-2-68	Companion shelves 124-1, 124-3, 125-1, and 125-3	0
ACL-1-2-69	SI48 shelves 32-1, 32-3, 33-1, 33-3, 139-1, and 139-3	0
ACL-1-2-70	SI48 shelves 34-1, 34-3, 35-1, 35-3, 109-1, and 109-3	0
ACL-1-2-71	Companion shelves 115-1, 115-3, 116-1, and 116-3, Asynchronous shelves 54-(1-4)	0
ACL-1-2-72	Companion shelves 127-1, 127-3, 128-1, and 128-3, Asynchronous shelves 55-(1-4)	0
ACL-1-2-73	SI48 shelves 36-1, 36-3, 37-1, 37-3, 140-1, and 140-3	0
ACL-1-2-74	SI48 shelves 38-1, 38-3, 39-1, 39-3, 110-1, and 110-3	0
ACL-1-2-75	SI48 shelves 40-1, 40-3, 41-1, 41-3, 111-1, and 111-3	0
ACL-1-2-76	SI48 shelves 42-1, 42-3, 43-1, 43-3, 141-1, and 141-3	0
ACL-1-2-77	Companion shelves 114-1, 114-3, 126-1, and 126-3, Asynchronous shelves 56-(1-4)	0
ACL-1-2-78	Companion shelves 118-1, 118-3, 119-1, and 119-3, Asynchronous shelves 57-(1-4)	0
ACL-1-2-79	Companion shelves 120-1, 120-3, 132-1, and 132-3, Asynchronous shelves 58-(1-4)	0
ACL-1-2-80	Companion shelves 130-1, 130-3, 131-1, and 131-3, Asynchronous shelves 59-(1-4)	0
ACL-1-2-81	Companion shelves 117-1, 117-3, 129-1, and 129-3, Asynchronous shelves 60-(1-4)	0
ACL-1-2-82	Companion shelves 121-1, 121-3, 122-1, and 122-3, Asynchronous shelves 61-(1-4)	0
ACL-1-2-83	Companion shelves 123-1, 123-3, 135-1, and 135-3, Asynchronous shelves 62-(1-4)	0
ACL-1-2-84	Companion shelves 133-1, 133-3, 134-1, and 134-3, Asynchronous shelves 63-(1-4)	0
ACL-1-2-93	SI48 shelves 28-1, 28-3, 29-1, and 29-3	1

Table 4-A. ACL Bus Addresses (cont.)

ACL ADDRESS	FUNCTION	LINK COPY
ACL-1-2-94	SI48 shelves 30-1, 30-3, 31-1, 31-3, 108-1, and 108-3	1
ACL-1-2-95	Companion shelves 112-1, 112-3, 113-1, and 113-3	1
ACL-1-2-96	Companion shelves 124-1, 124-3, 125-1, and 125-3	1
ACL-1-2-97	SI48 shelves 32-1, 32-3, 33-1, 33-3, 139-1, and 139-3	1
ACL-1-2-98	SI48 shelves 34-1, 34-3, 35-1, 35-3, 109-1, and 109-3	1
ACL-1-2-99	Companion shelves 115-1, 115-3, 116-1, and 116-3, Asynchronous shelves 54-(1-4)	1
ACL-1-2-100	Companion shelves 127-1, 127-3, 128-1, and 128-3, Asynchronous shelves 55-(1-4)	1
ACL-1-2-101	SI48 shelves 36-1, 36-3, 37-1, 37-3, 140-1, and 140-3	1
ACL-1-2-102	SI48 shelves 38-1, 38-3, 39-1, 39-3, 110-1, and 110-3	1
ACL-1-2-103	SI48 shelves 40-1, 40-3, 41-1, 41-3, 111-1, and 111-3	1
ACL-1-2-104	SI48 shelves 42-1, 42-3, 43-1, 43-3, 141-1, and 141-3	1
ACL-1-2-105	Companion shelves 114-1, 114-3, 126-1, 126-3, Asynchronous shelves 56-(1-4)	1
ACL-1-2-106	Companion shelves 118-1, 118-3, 119-1, 119-3, Asynchronous shelves 57-(1-4)	1
ACL-1-2-107	Companion shelves 120-1, 120-3, 132-1, 132-3, Asynchronous shelves 58-(1-4)	1
ACL-1-2-108	Companion shelves 130-1, 130-3, 131-1, 131-3, Asynchronous shelves 59-(1-4)	1
ACL-1-2-109	Companion shelves 117-1, 117-3, 129-1, 129-3, Asynchronous shelves 60-(1-4)	1
ACL-1-2-110	Companion shelves 121-1, 121-3, 122-1, 122-3, Asynchronous shelves 61-(1-4)	1
ACL-1-2-111	Companion shelves 123-1, 123-3, 135-1, 135-3, Asynchronous shelves 62-(1-4)	1
ACL-1-2-112	Companion shelves 133-1, 133-3, 134-1, 134-3, Asynchronous shelves 63-(1-4)	1

5. MATRIX ASSIGNMENTS

5.1 The following tables give matrix equipment connection for each port. Some configurations might require the use of multiple tables.

- Refer to table [5-A](#) for OC-3 port to end-stage matrix arrangement.
- Refer to table [5-B](#) for OC-12 port to end-stage matrix arrangement.
- Refer to table [5-C](#) for EC-1 port to EP3 or ES1 and matrix end-stage arrangement.
- Refer to table [5-D](#) for EC-1 port to SI36 EP3 or ES1 and M16 end-stage matrix arrangement.
- Refer to table [5-E](#) for DS3 port to SI48 EP3 and end-stage matrix arrangement.
- Refer to table [5-F](#) for DS3 port to SI36 EP3 and M16 end-stage matrix arrangement.
- Refer to table [5-G](#) for DS3 port to asynchronous input/output (I/O) equipment arrangement.
- Refer to table [5-H](#) for DS1 port to asynchronous I/O equipment arrangement.
- Refer to table [5-I](#) for facility AIDs for DS3 and DS1 I/O racks.
- Refer to table [5-J](#) for I/O-to-LMC 240 matrix equipment. See figure [5-1](#) for matrix shelf modules.
- Refer to table [5-K](#) for SI48-to-EOC and end-stage matrix equipment.

5.2 Refer to table [5-K](#) to determine supporting equipment for remote SI48 shelves.

5.3 To determine supporting equipment for asynchronous I/O equipment, refer to tables 5-G and 5-H first, then refer to table 5-K. The connection will vary depending on the SI48 shelf replaced by the asynchronous rack. Use the tables together, and align the optical board with the appropriate SI48 rack. Follow the table through matrix copy, EOC shelf, and first and third end stages. See figure 5-2 for an example.

Up to 20 asynchronous DS1 I/O racks can be installed (44 through 63). Each installed asynchronous rack replaces one SI48 synchronous shelf. The supporting equipment (EOB and M16/M32) is determined by which SI48 shelf the asynchronous rack replaces. The first asynchronous rack is always rack 44, but it can replace different SI48 shelves. For example: If rack 44 replaces SI48 rack 8 shelf 1, then supporting EOB and M16/M32 is listed in table 5-K across from SI48 8-1. Rack 45 replaces SI48 shelf 3, and the subsequent racks line up in order.

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{1-16}	O1B-6-1-{2-9, 11-18}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC3-{17-32}	O1B-6-3-{2-9, 11-18}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
OC3-{33-48}	O1B-7-1-{2-9, 11-18}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
OC3-{49-64}	O1B-7-3-{2-9, 11-18}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
OC3-{65-80}	O1B-8-1-{2-9, 11-18}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
OC3-{81-96}	O1B-8-3-{2-9, 11-18}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
OC3-{97-112}	O1B-9-1-{2-9, 11-18}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
OC3-{113-128}	O1B-9-3-{2-9, 11-18}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
OC3-{129-144}	O1B-12-1-{2-9, 11-18}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC3-{145-160}	O1B-12-3-{2-9, 11-18}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}
OC3-{161-176}	O1B-13-1-{2-9, 11-18}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
OC3-{177-192}	O1B-13-3-{2-9, 11-18}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{193-208}	O1B-14-1-{2-9, 11-18}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
OC3-{209-224}	O1B-14-3-{2-9, 11-18}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}
OC3-{225-240}	O1B-15-1-{2-9, 11-18}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
OC3-{241-256}	O1B-15-3-{2-9, 11-18}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
OC3-{257-272}	O1B-18-1-{2-9, 11-18}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
OC3-{273-288}	O1B-18-3-{2-9, 11-18}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
OC3-{289-304}	O1B-19-1-{2-9, 11-18}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
OC3-{305-320}	O1B-19-3-{2-9, 11-18}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
OC3-{321-336}	O1B-20-1-{2-9, 11-18}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
OC3-{337-352}	O1B-20-3-{2-9, 11-18}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
OC3-{353-368}	O1B-21-1-{2-9, 11-18}	M16/M32-16-3-{11,12}M16/M32-17-3-{11,12}	M16/M32-16-3-{15,16}M16/M32-17-3-{15,16}
OC3-{369-384}	O1B-21-3-{2-9, 11-18}	M16/M32-16-3-{11,12} M16/M32-17-3-{11,12}	M16/M32-16-3-{15,16} M16/M32-17-3-{15,16}
OC3-{385-400}	O1B-24-1-{2-9, 11-18}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
OC3-{401-416}	O1B-24-3-{2-9, 11-18}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
OC3-{417-432}	O1B-25-1-{2-9, 11-18}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
OC3-{433-448}	O1B-25-3-{2-9, 11-18}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
OC3-{449-464}	O1B-26-1-{2-9, 11-18}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
OC3-{465-480}	O1B-26-3-{2-9, 11-18}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}
OC3-{481-496}	O1B-27-1-{2-9, 11-18}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}
OC3-{497-512}	O1B-27-3-{2-9, 11-18}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{513-528}	O1B-28-1-{2-9, 11-18}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC3-{529-544}	O1B-28-3-{2-9, 11-18}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
OC3-{545-560}	O1B-29-1-{2-9, 11-18}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
OC3-{561-576}	O1B-29-3-{2-9, 11-18}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}
OC3-{577-592}	O1B-30-1-{2-9, 11-18}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
OC3-{593-608}	O1B-30-3-{2-9, 11-18}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}
OC3-{609-624}	O1B-31-1-{2-9, 11-18}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
OC3-{625-640}	O1B-31-3-{2-9, 11-18}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
OC3-{641-656}	O1B-32-1-{2-9, 11-18}	M32-10-3-{1,2} M32-11-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC3-{657-672}	O1B-32-3-{2-9, 11-18}	M32-10-3-{2,3} M32-11-3-{2,3}	M32-10-3-{6,7} M32-11-3-{6,7}
OC3-{673-688}	O1B-33-1-{2-9, 11-18}	M32-10-3-{3,4} M32-11-3-{3,4}	M32-10-3-{7,8} M32-11-3-{7,8}
OC3-{689-704}	O1B-33-3-{2-9, 11-18}	M32-10-3-{4,9} M32-11-3-{4,9}	M32-10-3-{8,13} M32-11-3-{8,13}
OC3-{705-720}	O1B-34-1-{2-9, 11-18}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
OC3-{721-736}	O1B-34-3-{2-9, 11-18}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
OC3-{737-752}	O1B-35-1-{2-9, 11-18}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
OC3-{753-768}	O1B-35-3-{2-9, 11-18}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
OC3-{769-784}	O1B-36-1-{2-9, 11-18}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
OC3-{785-800}	O1B-36-3-{2-9, 11-18}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}
OC3-{801-816}	O1B-37-1-{2-9, 11-18}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
OC3-{817-832}	O1B-37-3-{2-9, 11-18}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{833-848}	O1B-38-1-{2-9, 11-18}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}
OC3-{849-864}	O1B-38-3-{2-9, 11-18}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
OC3-{865-880}	O1B-39-1-{2-9, 11-18}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
OC3-{881-896}	O1B-39-3-{2-9, 11-18}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
OC3-{897-912}	O1B-40-1-{2-9, 11-18}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}
OC3-{913-928}	O1B-40-3-{2-9, 11-18}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
OC3-{929-944}	O1B-41-1-{2-9, 11-18}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
OC3-{945-960}	O1B-41-3-{2-9, 11-18}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
OC3-{961-976}	O1B-42-1-{2-9, 11-18}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
OC3-{977-992}	O1B-42-3-{2-9, 11-18}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
OC3-{993-1008}	O1B-43-1-{2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
OC3-{1009-1024}	O1B-43-3-{2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
OC3-{1025-1040}	O1B-104-1-{2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC3-{1041-1056}	O1B-104-3-{2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC3-{1057-1072}	O1B-105-1-{2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC3-{1073-1088}	O1B-105-3-{2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC3-{1089-1104}	O1B-106-1-{2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC3-{1105-1120}	O1B-106-3-{2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
OC3-{1121-1136}	O1B-107-1-{2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC3-{1137-1152}	O1B-107-3-{2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{1153-1168}	O1B-108-1-{2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC3-{1169-1184}	O1B-108-3-{2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC3-{1185-1200}	O1B-109-1-{2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC3-{1201-1216}	O1B-109-3-{2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC3-{1217-1232}	O1B-110-1-{2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC3-{1233-1248}	O1B-110-3-{2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
OC3-{1249-1264}	O1B-111-1-{2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC3-{1265-1280}	O1B-111-3-{2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC3-{1281-1296}	O1B-112-1-{2-9, 11-18}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC3-{1297-1312}	O1B-112-3-{2-9, 11-18}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
OC3-{1313-1328}	O1B-113-1-{2-9, 11-18}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
OC3-{1329-1344}	O1B-113-3-{2-9, 11-18}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
OC3-{1345-1360}	O1B-114-1-{2-9, 11-18}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
OC3-{1361-1376}	O1B-114-3-{2-9, 11-18}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
OC3-{1377-1392}	O1B-115-1-{2-9, 11-18}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC3-{1393-1408}	O1B-115-3-{2-9, 11-18}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}
OC3-{1409-1424}	O1B-116-1-{2-9, 11-18}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
OC3-{1425-1440}	O1B-116-3-{2-9, 11-18}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}
OC3-{1441-1456}	O1B-117-1-{2-9, 11-18}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
OC3-{1457-1472}	O1B-117-3-{2-9, 11-18}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{1473-1488}	O1B-118-1-{2-9, 11-18}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
OC3-{1489-1504}	O1B-118-3-{2-9, 11-18}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
OC3-{1505-1520}	O1B-119-1-{2-9, 11-18}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
OC3-{1521-1536}	O1B-119-3-{2-9, 11-18}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
OC3-{1537-1552}	O1B-120-1-{2-9, 11-18}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
OC3-{1553-1568}	O1B-120-3-{2-9, 11-18}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
OC3-{1569-1584}	O1B-121-1-{2-9, 11-18}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
OC3-{1585-1600}	O1B-121-3-{2-9, 11-18}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
OC3-{1601-1616}	O1B-122-1-{2-9, 11-18}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
OC3-{1617-1632}	O1B-122-3-{2-9, 11-18}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
OC3-{1633-1648}	O1B-123-1-{2-9, 11-18}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
OC3-{1649-1664}	O1B-123-3-{2-9, 11-18}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}
OC3-{1665-1680}	O1B-124-1-{2-9, 11-18}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC3-{1681-1696}	O1B-124-3-{2-9, 11-18}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
OC3-{1697-1712}	O1B-125-1-{2-9, 11-18}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
OC3-{1713-1728}	O1B-125-3-{2-9, 11-18}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}
OC3-{1729-1744}	O1B-126-1-{2-9, 11-18}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
OC3-{1745-1760}	O1B-126-3-{2-9, 11-18}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}
OC3-{1761-1776}	O1B-127-1-{2-9, 11-18}	M32-10-3-{1,2} M32-11-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC3-{1777-1792}	O1B-127-3-{2-9, 11-18}	M32-10-3-{2,3} M32-11-3-{2,3}	M32-10-3-{6,7} M32-11-3-{6,7}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{1793-1808}	O1B-128-1-{2-9, 11-18}	M32-10-3-{3,4} M32-11-3-{3,4}	M32-10-3-{7,8} M32-11-3-{7,8}
OC3-{1809-1824}	O1B-128-3-{2-9, 11-18}	M32-10-3-{4,9} M32-11-3-{4,9}	M32-10-3-{8,13} M32-11-3-{8,13}
OC3-{1825-1840}	O1B-129-1-{2-9, 11-18}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
OC3-{1841-1856}	O1B-129-3-{2-9, 11-18}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
OC3-{1857-1872}	O1B-130-1-{2-9, 11-18}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
OC3-{1873-1888}	O1B-130-3-{2-9, 11-18}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}
OC3-{1889-1904}	O1B-131-1-{2-9, 11-18}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
OC3-{1905-1920}	O1B-131-3-{2-9, 11-18}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}
OC3-{1921-1936}	O1B-132-1-{2-9, 11-18}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}
OC3-{1937-1952}	O1B-132-3-{2-9, 11-18}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
OC3-{1953-1968}	O1B-133-1-{2-9, 11-18}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}
OC3-{1969-1984}	O1B-133-3-{2-9, 11-18}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
OC3-{1985-2000}	O1B-134-1-{2-9, 11-18}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
OC3-{2001-2016}	O1B-134-3-{2-9, 11-18}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
OC3-{2017-2032}	O1B-135-1-{2-9, 11-18}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
OC3-{2033-2048}	O1B-135-3-{2-9, 11-18}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
OC3-{2049-2064}	O1B-136-1-{2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC3-{2065-2080}	O1B-136-3-{2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC3-{2081-2096}	O1B-137-1-{2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC3-{2097-2112}	O1B-137-3-{2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}

Table 5-A. OC-3 Port (O1B) to End-Stage Matrix Arrangement (cont.)

OC-3 PORT	I/O (O1B)	1ST END-STAGE	3RD END-STAGE
OC3-{2113-2128}	O1B-138-1-{2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC3-{2129-2144}	O1B-138-3-{2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
OC3-{2145-2160}	O1B-139-1-{2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC3-{2161-2176}	O1B-139-3-{2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC3-{2177-2192}	O1B-140-1-{2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC3-{2193-2208}	O1B-140-3-{2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC3-{2209-2224}	O1B-141-1-{2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC3-{2225-2240}	O1B-141-3-{2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{1-4}	O4M-6-1-{2, 3, 11, 12}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC12-{5-8}	O4M-6-3-{2, 3, 11, 12}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
OC12-{9-12}	O4M-7-1-{2,3,11,12}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
OC12-{13-16}	O4M-7-3-{2,3,11,12}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
OC12-{17-20}	O4M-8-1-{2,3,11,12}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
OC12-{21-24}	O4M-8-3-{2,3,11,12}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
OC12-{25-28}	O4M-9-1-{2,3,11,12}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
OC12-{29-32}	O4M-9-3-{2,3,11,12}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
OC12-{33-36}	O4M-12-1-{2,3, 11,12}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC12-{37-40}	O4M-12-3-{2,3, 11,12}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{41-44}	O4M-13-1-{2,3,11,12}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
OC12-{45-48}	O4M-13-3-{2,3,11,12}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}
OC12-{49-52}	O4M-14-1-{2,3,11,12}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
OC12-{53-56}	O4M-14-3-{2,3,11,12}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}
OC12-{57-60}	O4M-15-1-{2,3,11,12}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
OC12-{61-64}	O4M-15-3-{2,3,11,12}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
OC12-{65-68}	O4M-18-1-{2,3,11,12}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
OC12-{69-72}	O4M-18-3-{2,3,11,12}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
OC12-{73-76}	O4M-19-1-{2,3,11,12}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
OC12-{77-80}	O4M-19-3-{2,3,11,12}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
OC12-{81-84}	O4M-20-1-{2,3,11,12}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
OC12-{85-88}	O4M-20-3-{2,3,11,12}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
OC12-{89-92}	O4M-21-1-{2,3,11,12}	M16/M32-16-3-{11,12}M16 /M32-17-3-{11,12}	M16/M32-16-3-{15,16}M16 /M32-17-3-{15,16}
OC12-{93-96}	O4M-21-3-{2,3,11,12}	M16/M32-16-3-{11,12} M16/M32-17-3-{11,12}	M16/M32-16-3-{15,16} M16/M32-17-3-{15,16}
OC12-{97-100}	O4M-24-1-{2,3,11,12}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
OC12-{101-104}	O4M-24-3-{2,3,11,12}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
OC12-{105-108}	O4M-25-1-{2,3,11,12}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
OC12-{109-112}	O4M-25-3-{2,3,11,12}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
OC12-{113-116}	O4M-26-1-{2,3,11,12}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
OC12-{117-120}	O4M-26-3-{2,3,11,12}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{121-124}	O4M-27-1-{2,3, 11,12}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}
OC12-{125-128}	O4M-27-3-{2,3, 11,12}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}
OC12-{129-132}	O4M-28-1-{2,3, 11,12}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC12-{133-136}	O4M-28-3-{2,3, 11,12}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
OC12-{137-140}	O4M-29-1-{2,3, 11,12}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
OC12-{141-144}	O4M-29-3-{2,3, 11,12}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}
OC12-{145-148}	O4M-30-1-{2,3, 11,12}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
OC12-{149-152}	O4M-30-3-{2,3, 11,12}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}
OC12-{153-156}	O4M-31-1-{2,3, 11,12}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
OC12-{157-160}	O4M-31-3-{2,3, 11,12}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
OC12-{161-164}	O4M-32-1-{2,3, 11,12}	M32-10-3-{1,2} M32-11-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC12-{165-168}	O4M-32-3-{2,3, 11,12}	M32-10-3-{2,3} M32-11-3-{2,3}	M32-10-3-{6,7} M32-11-3-{6,7}
OC12-{169-172}	O4M-33-1-{2,3, 11,12}	M32-10-3-{3,4} M32-11-3-{3,4}	M32-10-3-{7,8} M32-11-3-{7,8}
OC12-{173-176}	O4M-33-3-{2,3, 11,12}	M32-10-3-{4,9} M32-11-3-{4,9}	M32-10-3-{8,13} M32-11-3-{8,13}
OC12-{177-180}	O4M-34-1-{2,3, 11,12}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
OC12-{181-184}	O4M-34-3-{2,3, 11,12}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
OC12-{185-188}	O4M-35-1-{2,3, 11,12}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
OC12-{189-192}	O4M-35-3-{2,3, 11,12}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
OC12-{193-196}	O4M-36-1-{2,3, 11,12}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
OC12-{197-200}	O4M-36-3-{2,3, 11,12}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{201-204}	O4M-37-1-{2,3, 11,12}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
OC12-{205-208}	O4M-37-3-{2,3, 11,12}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}
OC12-{209-212}	O4M-38-1-{2,3, 11,12}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}
OC12-{213-216}	O4M-38-3-{2,3, 11,12}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
OC12-{217-220}	O4M-39-1-{2,3, 11,12}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
OC12-{221-224}	O4M-39-3-{2,3, 11,12}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
OC12-{225-228}	O4M-40-1-{2,3, 11,12}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}
OC12-{229-232}	O4M-40-3-{2,3, 11,12}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
OC12-{233-236}	O4M-41-1-{2,3, 11,12}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
OC12-{237-240}	O4M-41-3-{2,3, 11,12}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
OC12-{241-244}	O4M-42-1-{2,3, 11,12}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
OC12-{245-248}	O4M-42-3-{2,3, 11,12}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
OC12-{249-252}	O4M-43-1-{2,3, 11,12}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
OC12-{253-256}	O4M-43-3-{2,3, 11,12}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
OC12-{257-260}	O4M-104-1-{2,3, 11,12}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC12-{261-264}	O4M-104-3-{2,3, 11,12}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC12-{265-268}	O4M-105-1-{2,3, 11,12}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC12-{269-272}	O4M-105-3-{2,3, 11,12}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC12-{273-276}	O4M-106-1-{2,3, 11,12}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC12-{277-280}	O4M-106-3-{2,3, 11,12}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{281-284}	O4M-107-1-{2,3,11,12}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC12-{285-288}	O4M-107-3-{2,3,11,12}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC12-{289-292}	O4M-108-1-{2,3,11,12}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC12-{293-296}	O4M-108-3-{2,3,11,12}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC12-{297-300}	O4M-109-1-{2,3,11,12}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC12-{301-304}	O4M-109-3-{2,3,11,12}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC12-{305-308}	O4M-110-1-{2,3,11,12}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC12-{309-312}	O4M-110-3-{2,3,11,12}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
OC12-{313-316}	O4M-111-1-{2,3,11,12}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC12-{317-320}	O4M-111-3-{2,3,11,12}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
OC12-{321-324}	O4M-112-1-{2,3,11,12}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC12-{325-328}	O4M-112-3-{2,3,11,12}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
OC12-{329-332}	O4M-113-1-{2,3,11,12}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
OC12-{333-336}	O4M-113-3-{2,3,11,12}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
OC12-{337-340}	O4M-114-1-{2,3,11,12}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
OC12-{341-344}	O4M-114-3-{2,3,11,12}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
OC12-{345-348}	O4M-115-1-{2,3,11,12}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
OC12-{349-352}	O4M-115-3-{2,3,11,12}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}
OC12-{353-356}	O4M-116-1-{2,3,11,12}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
OC12-{357-360}	O4M-116-3-{2,3,11,12}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{361-364}	O4M-117-1-{2,3,11,12}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
OC12-{365-368}	O4M-117-3-{2,3,11,12}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}
OC12-{369-372}	O4M-118-1-{2,3,11,12}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
OC12-{373-376}	O4M-118-3-{2,3,11,12}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
OC12-{377-380}	O4M-119-1-{2,3,11,12}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
OC12-{381-384}	O4M-119-3-{2,3,11,12}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
OC12-{385-388}	O4M-120-1-{2,3,11,12}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
OC12-{389-392}	O4M-120-3-{2,3,11,12}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
OC12-{393-396}	O4M-121-1-{2,3,11,12}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
OC12-{397-400}	O4M-121-3-{2,3,11,12}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
OC12-{401-404}	O4M-122-1-{2,3,11,12}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
OC12-{405-408}	O4M-122-3-{2,3,11,12}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
OC12-{409-412}	O4M-123-1-{2,3,11,12}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
OC12-{413-416}	O4M-123-3-{2,3,11,12}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}
OC12-{417-420}	O4M-124-1-{2,3,11,12}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
OC12-{421-424}	O4M-124-3-{2,3,11,12}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
OC12-{425-428}	O4M-125-1-{2,3,11,12}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
OC12-{429-432}	O4M-125-3-{2,3,11,12}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}
OC12-{433-436}	O4M-126-1-{2,3,11,12}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
OC12-{437-440}	O4M-126-3-{2,3,11,12}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{457-460}	O4M-129-1-{2,3,11,12}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
OC12-{461-464}	O4M-129-3-{2,3,11,12}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
OC12-{465-468}	O4M-130-1-{2,3,11,12}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
OC12-{469-472}	O4M-130-3-{2,3,11,12}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}
OC12-{473-476}	O4M-131-1-{2,3,11,12}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
OC12-{477-480}	O4M-131-3-{2,3,11,12}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}
OC12-{481-484}	O4M-132-1-{2,3,11,12}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}
OC12-{485-488}	O4M-132-3-{2,3,11,12}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
OC12-{489-492}	O4M-133-1-{2,3,11,12}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}
OC12-{493-496}	O4M-133-3-{2,3,11,12}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
OC12-{497-500}	O4M-134-1-{2,3,11,12}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
OC12-{501-504}	O4M-134-3-{2,3,11,12}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
OC12-{505-508}	O4M-135-1-{2,3,11,12}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
OC12-{509-512}	O4M-135-3-{2,3,11,12}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
OC12-{513-516}	O4M-136-1-{2,3,11,12}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC12-{517-520}	O4M-136-3-{2,3,11,12}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC12-{521-524}	O4M-137-1-{2,3,11,12}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC12-{525-528}	O4M-137-3-{2,3,11,12}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC12-{529-532}	O4M-138-1-{2,3,11,12}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC12-{533-536}	O4M-138-3-{2,3,11,12}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}

Table 5-B. OC-12 Port (O4M) to End-Stage Matrix Arrangement (cont.)

OC-12 PORT	I/O (O4M)	1ST END-STAGE	3RD END-STAGE
OC12-{537-540}	O4M-139-1-{2,3,11,12}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
OC12-{541-544}	O4M-139-3-{2,3,11,12}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
OC12-{545-548}	O4M-140-1-{2,3,11,12}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
OC12-{549-552}	O4M-140-3-{2,3,11,12}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
OC12-{553-556}	O4M-141-1-{2,3,11,12}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
OC12-{557-560}	O4M-141-3-{2,3,11,12}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}

Table 5-C. EC-1 Port (EP3 or ES1) and End-Stage Matrix Arrangement

EC-1 PORT	I/O (EP3 OR ES1)	1ST END-STAGE	3RD END-STAGE
EC1-{1-48}	{EP3, ES1}-6-1- {2-9, 11-18}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
EC1-{49-96}	{EP3, ES1}-6-3- {2-9, 11-18}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
EC1-{97-144}	{EP3, ES1}-7-1- {2-9, 11-18}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
EC1-{145-192}	{EP3, ES1}-7-3- {2-9, 11-18}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
EC1-{193-240}	{EP3, ES1}-8-1- {2-9, 11-18}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
EC1-{241-288}	{EP3, ES1}-8-3- {2-9, 11-18}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
EC1-{289-336} reserved			
EC1-{337-384}	{EP3, ES1}-9-3- {2-9, 11-18}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
EC1-{385-432}	{EP3, ES1}-12-1- {2-9, 11-18}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
EC1-{433-480}	{EP3, ES1}-12-3- {2-9, 11-18}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}
EC1-{481-528}	{EP3, ES1}-13-1- {2-9, 11-18}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
EC1-{529-576}	{EP3, ES1}-13-3- {2-9, 11-18}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}

Table 5-C. EC-1 Port (EP3 or ES1) and End-Stage Matrix Arrangement (cont.)

EC-1 PORT	I/O (EP3 OR ES1)	1ST END-STAGE	3RD END-STAGE
EC1-{577-624}	{EP3, ES1}-14-1- {2-9, 11-18}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
EC1-{625-672}	{EP3, ES1}-14-3- {2-9, 11-18}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}
EC1-{673-720}	{EP3, ES1}-15-1- {2-9, 11-18}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
EC1-{721-768} reserved			
EC1-{769-816}	{EP3, ES1}-18-1- {2-9, 11-18}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
EC1-{817-864}	{EP3, ES1}-18-3- {2-9, 11-18}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
EC1-{865-912}	{EP3, ES1}-19-1- {2-9, 11-18}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
EC1-{913-960}	{EP3, ES1}-19-3- {2-9, 11-18}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
EC1-{961-1008}	{EP3, ES1}-20-1- {2-9, 11-18}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
EC1-{1009-1056}	{EP3, ES1}-20-3- {2-9, 11-18}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
EC1-{1057-1104} reserved			
EC1-{1105-1152}	{EP3, ES1}-21-3- {2-9, 11-18}	M16/M32-16-3-{11,12} M16/M32-17-3-{11,12}	M16/M32-16-3-{15,16} M16/M32-17-3-{15,16}
EC1-{1153-1200}	{EP3, ES1}-24-1- {2-9, 11-18}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
EC1-{1201-1248}	{EP3, ES1}-24-3- {2-9, 11-18}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
EC1-{1249-1296}	{EP3, ES1}-25-1- {2-9, 11-18}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
EC1-{1297-1344}	{EP3, ES1}-25-3- {2-9, 11-18}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
EC1-{1345-1392}	{EP3, ES1}-26-1- {2-9, 11-18}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
EC1-{1393-1440}	{EP3, ES1}-26-3- {2-9, 11-18}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}
EC1-{1441-1488}	{EP3, ES1}-27-1- {2-9, 11-18}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}
EC1-{1489-1536} reserved			
EC1-{1537-1584}	{EP3, ES1}-28-1- {2-9, 11-18}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}

Table 5-C. EC-1 Port (EP3 or ES1) and End-Stage Matrix Arrangement (cont.)

EC-1 PORT	I/O (EP3 OR ES1)	1ST END-STAGE	3RD END-STAGE
EC1-{1585-1632}	{EP3, ES1}-28-3- {2-9, 11-18}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
EC1-{1633-1680}	{EP3, ES1}-29-1- {2-9, 11-18}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
EC1-{1681-1728}	{EP3, ES1}-29-3- {2-9, 11-18}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}
EC1-{1729-1776}	{EP3, ES1}-30-1- {2-9, 11-18}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
EC1-{1777-1824}	{EP3, ES1}-30-3- {2-9, 11-18}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}
EC1-{1825-1872}	{EP3, ES1}-31-1- {2-9, 11-18}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
EC1-{1873-1920} reserved			
EC1-{1921-1968}	{EP3, ES1}-32-1- {2-9, 11-18}	M32-10-3-{1,2} M32-11-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
EC1-{1969-2016}	{EP3, ES1}-32-3- {2-9, 11-18}	M32-10-3-{2,3} M32-11-3-{2,3}	M32-10-3-{6,7} M32-11-3-{6,7}
EC1-{2017-2064}	{EP3, ES1}-33-1- {2-9, 11-18}	M32-10-3-{3,4} M32-11-3-{3,4}	M32-10-3-{7,8} M32-11-3-{7,8}
EC1-{2065-2112}	{EP3, ES1}-33-3- {2-9, 11-18}	M32-10-3-{4,9} M32-11-3-{4,9}	M32-10-3-{8,13} M32-11-3-{8,13}
EC1-{2113-2160}	{EP3, ES1}-34-1- {2-9, 11-18}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
EC1-{2161-2208}	{EP3, ES1}-34-3- {2-9, 11-18}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
EC1-{2209-2256} reserved			
EC1-{2257-2304}	{EP3, ES1}-35-3- {2-9, 11-18}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
EC1-{2305-2352}	{EP3, ES1}-36-1- {2-9, 11-18}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
EC1-{2253-2400}	{EP3, ES1}-36-3- {2-9, 11-18}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}
EC1-{2401-2448}	{EP3, ES1}-37-1- {2-9, 11-18}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
EC1-{2449-2496}	{EP3, ES1}-37-3- {2-9, 11-18}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}
EC1-{2497-2544}	{EP3, ES1}-38-1- {2-9, 11-18}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}

Table 5-C. EC-1 Port (EP3 or ES1) and End-Stage Matrix Arrangement (cont.)

EC-1 PORT	I/O (EP3 OR ES1)	1ST END-STAGE	3RD END-STAGE
EC1-{2545-2592}	{EP3, ES1}-38-3- {2-9, 11-18}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
EC1-{2593-2640}	{EP3, ES1}-39-1- {2-9, 11-18}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
EC1-{2641-2688} reserved			
EC1-{2689-2736}	{EP3, ES1}-40-1- {2-9, 11-18}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}
EC1-{2737-2784}	{EP3, ES1}-40-3- {2-9, 11-18}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
EC1-{2785-2832}	{EP3, ES1}-41-1- {2-9, 11-18}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
EC1-{2833-2880}	{EP3, ES1}-41-3- {2-9, 11-18}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
EC1-{2881-2928}	{EP3, ES1}-42-1- {2-9, 11-18}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
EC1-{2929-2976}	{EP3, ES1}-42-3- {2-9, 11-18}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
EC1-{2977-3024} reserved			
EC1-{3025-3072}	{EP3, ES1}-43-3- {2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
EC1-{3073-3120}	{EP3, ES1}-104-1- {2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
EC1-{3121-3168}	{EP3, ES1}-104-3- {2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
EC1-{3169-3216}	{EP3, ES1}-105-1- {2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
EC1-{3217-3264}	{EP3, ES1}-105-3- {2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
EC1-{3265-3312}	{EP3, ES1}-106-1- {2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
EC1-{3313-3360}	{EP3, ES1}-106-3- {2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
EC1-{3361-3408} reserved			
EC1-{3409-3456}	{EP3, ES1}-107-3- {2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
EC1-{3457-3504}	{EP3, ES1}-108-1- {2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
EC1-{3505-3552}	{EP3, ES1}-108-3- {2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}

Table 5-C. EC-1 Port (EP3 or ES1) and End-Stage Matrix Arrangement (cont.)

EC-1 PORT	I/O (EP3 OR ES1)	1ST END-STAGE	3RD END-STAGE
EC1-{3553-3600}	{EP3, ES1}-109-1- {2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
EC1-{3601-3648}	{EP3, ES1}-109-3- {2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
EC1-{3649-3696}	{EP3, ES1}-110-1- {2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
EC1-{3697-3744}	{EP3, ES1}-110-3- {2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
EC1-{3745-3792}	{EP3, ES1}-111-1- {2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}

Table 5-D. EC-1 Port (SI36 EP3 or ES1) and M16 End-Stage Matrix Arrangement

EC1 PORT	I/O (ES1 OR EP3)	1ST END-STAGE	3RD END-STAGE
EC1-{1-36}	{EP3, ES1}-6-1-{2-7, 9-14}	M16-5-3-{1,2} M16-4-3-{1,2}	M16-5-3-{5,6} M16-4-3-{5,6}
EC1-{37-72}	{EP3, ES1}-6-3-{2-7, 9-14}	M16-5-3-{2,3} M16-4-3-{2,3}	M16-5-3-{6,7} M16-4-3-{6,7}
EC1-{97-132}	{EP3, ES1}-7-1-{2-7, 9-14}	M16-5-3-{3,4} M16-4-3-{3,4}	M16-5-3-{7,8} M16-4-3-{7,8}
EC1-{133-168}	{EP3, ES1}-7-3-{2-7, 9-14}	M16-5-3-{4,9} M16-4-3-{4,9}	M16-5-3-{8,13} M16-4-3-{8,13}
EC1-{193-228}	{EP3, ES1}-8-1-{2-7, 9-14}	M16-5-3-{9,10} M16-4-3-{9,10}	M16-5-3-{13,14} M16-4-3-{13,14}
EC1-{229-264}	{EP3, ES1}-8-3-{2-7, 9-14}	M16-5-3-{10,11} M16-4-3-{10,11}	M16-5-3-{14,15} M16-4-3-{14,15}
EC1-{289-324} reserved			
EC1-{325-360}	{EP3, ES1}-9-3-{2-7, 9-14}	M16-5-3-{11,12} M16-4-3-{11,12}	M16-5-3-{15,16} M16-4-3-{15,16}
EC1-{385-420}	{EP3, ES1}-12-1-{2-7, 9-14}	M16-10-3-{1,2} M16-11-3-{1,2}	M16-10-3-{5,6} M16-11-3-{5,6}
EC1-{421-456}	{EP3, ES1}-12-3-{2-7, 9-14}	M16-10-3-{2,3} M16-11-3-{2,3}	M16-10-3-{6,7} M16-11-3-{6,7}
EC1-{481-516}	{EP3, ES1}-13-1-{2-7, 9-14}	M16-10-3-{3,4} M16-11-3-{3,4}	M16-10-3-{7,8} M16-11-3-{7,8}
EC1-{517-552}	{EP3, ES1}-13-3-{2-7, 9-14}	M16-10-3-{4,9} M16-11-3-{4,9}	M16-10-3-{8,13} M16-11-3-{8,13}
EC1-{577-612}	{EP3, ES1}-14-1-{2-7, 9-14}	M16-10-3-{9,10} M16-11-3-{9,10}	M16-10-3-{13,14} M16-11-3-{13,14}

Table 5-D. EC-1 Port (SI36 EP3 or ES1) and M16 End-Stage Matrix Arrangement (cont.)

EC1 PORT	I/O (ES1 OR EP3)	1ST END-STAGE	3RD END-STAGE
EC1-{613-648}	{EP3, ES1}-14-3- {2-7, 9-14}	M16-10-3-{10,11} M16-11-3-{10,11}	M16-10-3-{14,15} M16-11-3-{14,15}
EC1-{673-708}	{EP3, ES1}-15-1- {2-7, 9-14}	M16-10-3-{11,12} M16-11-3-{11,12}	M16-10-3-{15,16} M16-11-3-{15,16}
EC1-{709-744} reserved			

Table 5-E. DS3 Port (SI48 EP3) and End-Stage Matrix Arrangement

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{961-1008}	EP3-6-1-{2-9, 11-18}	M16/M32-5-3-{1,2} M16/M32-4-3-{1,2}	M16/M32-5-3-{5,6} M16/M32-4-3-{5,6}
T3-{1009-1056}	EP3-6-3-{2-9, 11-18}	M16/M32-5-3-{2,3} M16/M32-4-3-{2,3}	M16/M32-5-3-{6,7} M16/M32-4-3-{6,7}
T3-{1057-1104}	EP3-7-1-{2-9, 11-18}	M16/M32-5-3-{3,4} M16/M32-4-3-{3,4}	M16/M32-5-3-{7,8} M16/M32-4-3-{7,8}
T3-{1105-1152}	EP3-7-3-{2-9, 11-18}	M16/M32-5-3-{4,9} M16/M32-4-3-{4,9}	M16/M32-5-3-{8,13} M16/M32-4-3-{8,13}
T3-{1153-1200}	EP3-8-1-{2-9, 11-18}	M16/M32-5-3-{9,10} M16/M32-4-3-{9,10}	M16/M32-5-3-{13,14} M16/M32-4-3-{13,14}
T3-{1201-1248}	EP3-8-3-{2-9, 11-18}	M16/M32-5-3-{10,11} M16/M32-4-3-{10,11}	M16/M32-5-3-{14,15} M16/M32-4-3-{14,15}
T3-{1249-1296} reserved			
T3-{1297-1344}	EP3-9-3-{2-9, 11-18}	M16/M32-5-3-{11,12} M16/M32-4-3-{11,12}	M16/M32-5-3-{15,16} M16/M32-4-3-{15,16}
T3-{1345-1392}	EP3-12-1-{2-9, 11-18}	M16/M32-10-3-{1,2} M16/M32-11-3-{1,2}	M16/M32-10-3-{5,6} M16/M32-11-3-{5,6}
T3-{1393-1440}	EP3-12-3-{2-9, 11-18}	M16/M32-10-3-{2,3} M16/M32-11-3-{2,3}	M16/M32-10-3-{6,7} M16/M32-11-3-{6,7}
T3-{1441-1488}	EP3-13-1-{2-9, 11-18}	M16/M32-10-3-{3,4} M16/M32-11-3-{3,4}	M16/M32-10-3-{7,8} M16/M32-11-3-{7,8}
T3-{1489-1536}	EP3-13-3-{2-9, 11-18}	M16/M32-10-3-{4,9} M16/M32-11-3-{4,9}	M16/M32-10-3-{8,13} M16/M32-11-3-{8,13}
T3-{1537-1584}	EP3-14-1-{2-9, 11-18}	M16/M32-10-3-{9,10} M16/M32-11-3-{9,10}	M16/M32-10-3-{13,14} M16/M32-11-3-{13,14}
T3-{1585-1632}	EP3-14-3-{2-9, 11-18}	M16/M32-10-3-{10,11} M16/M32-11-3-{10,11}	M16/M32-10-3-{14,15} M16/M32-11-3-{14,15}
T3-{1633-1680}	EP3-15-1-{2-9, 11-18}	M16/M32-10-3-{11,12} M16/M32-11-3-{11,12}	M16/M32-10-3-{15,16} M16/M32-11-3-{15,16}
T3-{1681-1728} reserved			

Table 5-E. DS3 Port (SI48 EP3) and End-Stage Matrix Arrangement (cont.)

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{1729-1776}	EP3-18-1-{2-9, 11-18}	M16/M32-16-3-{1,2} M16/M32-17-3-{1,2}	M16/M32-16-3-{5,6} M16/M32-17-3-{5,6}
T3-{1777-1824}	EP3-18-3-{2-9, 11-18}	M16/M32-16-3-{2,3} M16/M32-17-3-{2,3}	M16/M32-16-3-{6,7} M16/M32-17-3-{6,7}
T3-{1825-1872}	EP3-19-1-{2-9, 11-18}	M16/M32-16-3-{3,4} M16/M32-17-3-{3,4}	M16/M32-16-3-{7,8} M16/M32-17-3-{7,8}
T3-{1873-1920}	EP3-19-3-{2-9, 11-18}	M16/M32-16-3-{4,9} M16/M32-17-3-{4,9}	M16/M32-16-3-{8,13} M16/M32-17-3-{8,13}
T3-{1921-1968}	EP3-20-1-{2-9, 11-18}	M16/M32-16-3-{9,10} M16/M32-17-3-{9,10}	M16/M32-16-3-{13,14} M16/M32-17-3-{13,14}
T3-{1969-2016}	EP3-20-3-{2-9, 11-18}	M16/M32-16-3-{10,11} M16/M32-17-3-{10,11}	M16/M32-16-3-{14,15} M16/M32-17-3-{14,15}
T3-{2107-2064} reserved			
T3-{2065-2112}	EP3-21-3-{2-9, 11-18}	M16/M32-16-3-{11,12} M16/M32-17-3-{11,12}	M16/M32-16-3-{15,16} M16/M32-17-3-{15,16}
T3-{2113-2160}	EP3-24-1-{2-9, 11-18}	M16/M32-23-3-{1,2} M16/M32-22-3-{1,2}	M16/M32-23-3-{5,6} M16/M32-22-3-{5,6}
T3-{2161-2208}	EP3-24-3-{2-9, 11-18}	M16/M32-23-3-{2,3} M16/M32-22-3-{2,3}	M16/M32-23-3-{6,7} M16/M32-22-3-{6,7}
T3-{2209-2256}	EP3-25-1-{2-9, 11-18}	M16/M32-23-3-{3,4} M16/M32-22-3-{3,4}	M16/M32-23-3-{7,8} M16/M32-22-3-{7,8}
T3-{2257-2304}	EP3-25-3-{2-9, 11-18}	M16/M32-23-3-{4,9} M16/M32-22-3-{4,9}	M16/M32-23-3-{8,13} M16/M32-22-3-{8,13}
T3-{2305-2352}	EP3-26-1-{2-9, 11-18}	M16/M32-23-3-{9,10} M16/M32-22-3-{9,10}	M16/M32-23-3-{13,14} M16/M32-22-3-{13,14}
T3-{2353-2400}	EP3-26-3-{2-9, 11-18}	M16/M32-23-3-{10,11} M16/M32-22-3-{10,11}	M16/M32-23-3-{14,15} M16/M32-22-3-{14,15}
T3-{2401-2448}	EP3-27-1-{2-9, 11-18}	M16/M32-23-3-{11,12} M16/M32-22-3-{11,12}	M16/M32-23-3-{15,16} M16/M32-22-3-{15,16}
T3-{2449-2496} reserved			
T3-{2497-2544}	EP3-28-1-{2-9, 11-18}	M32-5-3-{1,2} M32-4-3-{1,2}	M32-5-3-{5,6} M32-4-3-{5,6}
T3-{2545-2592}	EP3-28-3-{2-9, 11-18}	M32-5-3-{2,3} M32-4-3-{2,3}	M32-5-3-{6,7} M32-4-3-{6,7}
T3-{2593-2640}	EP3-29-1-{2-9, 11-18}	M32-5-3-{3,4} M32-4-3-{3,4}	M32-5-3-{7,8} M32-4-3-{7,8}
T3-{2641-2688}	EP3-29-3-{2-9, 11-18}	M32-5-3-{4,9} M32-4-3-{4,9}	M32-5-3-{8,13} M32-4-3-{8,13}

Table 5-E. DS3 Port (SI48 EP3) and End-Stage Matrix Arrangement (cont.)

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{2689-2736}	EP3-30-1-{2-9, 11-18}	M32-5-3-{9,10} M32-4-3-{9,10}	M32-5-3-{13,14} M32-4-3-{13,14}
T3-{2737-2784}	EP3-30-3-{2-9, 11-18}	M32-5-3-{10,11} M32-4-3-{10,11}	M32-5-3-{14,15} M32-4-3-{14,15}
T3-{2785-2832}	EP3-31-1-{2-9, 11-18}	M32-5-3-{11,12} M32-4-3-{11,12}	M32-5-3-{15,16} M32-4-3-{15,16}
T3-{2833-2880} reserved			
T3-{2881-2928}	EP3-32-1-{2-9, 11-18}	M32-10-3-{1,2} M32-11-3-{1,2}	M32-10-3-{5,6} M32-11-3-{5,6}
T3-{2929-2976}	EP3-32-3-{2-9, 11-18}	M32-10-3-{2,3} M32-11-3-{2,3}	M32-10-3-{6,7} M32-11-3-{6,7}
T3-{2977-3024}	EP3-33-1-{2-9, 11-18}	M32-10-3-{3,4} M32-11-3-{3,4}	M32-10-3-{7,8} M32-11-3-{7,8}
T3-{3025-3072}	EP3-33-3-{2-9, 11-18}	M32-10-3-{4,9} M32-11-3-{4,9}	M32-10-3-{8,13} M32-11-3-{8,13}
T3-{3073-3120}	EP3-34-1-{2-9, 11-18}	M32-10-3-{9,10} M32-11-3-{9,10}	M32-10-3-{13,14} M32-11-3-{13,14}
T3-{3121-3168}	EP3-34-3-{2-9, 11-18}	M32-10-3-{10,11} M32-11-3-{10,11}	M32-10-3-{14,15} M32-11-3-{14,15}
T3-{3169-3216} reserved			
T3-{3217-3264}	EP3-35-3-{2-9, 11-18}	M32-10-3-{11,12} M32-11-3-{11,12}	M32-10-3-{15,16} M32-11-3-{15,16}
T3-{3265-3312}	EP3-36-1-{2-9, 11-18}	M32-16-3-{1,2} M32-17-3-{1,2}	M32-16-3-{5,6} M32-17-3-{5,6}
T3-{3313-3360}	EP3-36-3-{2-9, 11-18}	M32-16-3-{2,3} M32-17-3-{2,3}	M32-16-3-{6,7} M32-17-3-{6,7}
T3-{3361-3408}	EP3-37-1-{2-9, 11-18}	M32-16-3-{3,4} M32-17-3-{3,4}	M32-16-3-{7,8} M32-17-3-{7,8}
T3-{3409-3456}	EP3-37-3-{2-9, 11-18}	M32-16-3-{4,9} M32-17-3-{4,9}	M32-16-3-{8,13} M32-17-3-{8,13}
T3-{3457-3504}	EP3-38-1-{2-9, 11-18}	M32-16-3-{9,10} M32-17-3-{9,10}	M32-16-3-{13,14} M32-17-3-{13,14}
T3-{3505-3552}	EP3-38-3-{2-9, 11-18}	M32-16-3-{10,11} M32-17-3-{10,11}	M32-16-3-{14,15} M32-17-3-{14,15}
T3-{3553-3600}	EP3-39-1-{2-9, 11-18}	M32-16-3-{11,12} M32-17-3-{11,12}	M32-16-3-{15,16} M32-17-3-{15,16}
T3-{3601-3648} reserved			
T3-{3649-3696}	EP3-40-1-{2-9, 11-18}	M32-23-3-{1,2} M32-22-3-{1,2}	M32-23-3-{5,6} M32-22-3-{5,6}

Table 5-E. DS3 Port (SI48 EP3) and End-Stage Matrix Arrangement (cont.)

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{3697-3744}	EP3-40-3-{2-9, 11-18}	M32-23-3-{2,3} M32-22-3-{2,3}	M32-23-3-{6,7} M32-22-3-{6,7}
T3-{3745-3792}	EP3-41-1-{2-9, 11-18}	M32-23-3-{3,4} M32-22-3-{3,4}	M32-23-3-{7,8} M32-22-3-{7,8}
T3-{3793-3840}	EP3-41-3-{2-9, 11-18}	M32-23-3-{4,9} M32-22-3-{4,9}	M32-23-3-{8,13} M32-22-3-{8,13}
T3-{3841-3888}	EP3-42-1-{2-9, 11-18}	M32-23-3-{9,10} M32-22-3-{9,10}	M32-23-3-{13,14} M32-22-3-{13,14}
T3-{3889-3936}	EP3-42-3-{2-9, 11-18}	M32-23-3-{10,11} M32-22-3-{10,11}	M32-23-3-{14,15} M32-22-3-{14,15}
T3-{3937-3984} reserved			
T3-{3985-4032}	EP3-43-3-{2-9, 11-18}	M32-23-3-{11,12} M32-22-3-{11,12}	M32-23-3-{15,16} M32-22-3-{15,16}
T3-{4033-4080}	{EP3}-104-1- {2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
T3-{4081-4128}	{EP3}-104-3- {2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
T3-{4129-4176}	{EP3}-105-1- {2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
T3-{4177-4224}	{EP3}-105-3- {2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
T3-{4225-4272}	{EP3}-106-1- {2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}
T3-{4273-4320}	{EP3}-106-3- {2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
T3-{4321-4368} reserved			
T3-{4369-4416}	{EP3}-107-3- {2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}
T3-{4417-4464}	{EP3}-108-1- {2-9, 11-18}	M32-103-3-{1,2} M32-102-3-{1,2}	M32-103-3-{5,6} M32-102-3-{5,6}
T3-{4465-4512}	{EP3}-108-3- {2-9, 11-18}	M32-103-3-{2,3} M32-102-3-{2,3}	M32-103-3-{6,7} M32-102-3-{6,7}
T3-{4513-4560}	{EP3}-109-1- {2-9, 11-18}	M32-103-3-{3,4} M32-102-3-{3,4}	M32-103-3-{7,8} M32-102-3-{7,8}
T3-{4561-4608}	{EP3}-109-3- {2-9, 11-18}	M32-103-3-{4,9} M32-102-3-{4,9}	M32-103-3-{8,13} M32-102-3-{8,13}
T3-{4609-4656}	{EP3}-110-1- {2-9, 11-18}	M32-103-3-{9,10} M32-102-3-{9,10}	M32-103-3-{13,14} M32-102-3-{13,14}

Table 5-E. DS3 Port (SI48 EP3) and End-Stage Matrix Arrangement (cont.)

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{4657-4704}	{EP3}-110-3- {2-9, 11-18}	M32-103-3-{10,11} M32-102-3-{10,11}	M32-103-3-{14,15} M32-102-3-{14,15}
T3-{4705-4752}	{EP3}-111-1- {2-9, 11-18}	M32-103-3-{11,12} M32-102-3-{11,12}	M32-103-3-{15,16} M32-102-3-{15,16}

Table 5-F. DS3 Port (SI36 EP3) and M16 End-Stage Matrix Arrangement

DS3 PORTS	I/O (EP3)	1ST END-STAGE	3RD END-STAGE
T3-{961-996}	EP3-6-1-{2-7, 9-14}	M16-5-3-{1,2} M16-4-3-{1,2}	M16-5-3-{5,6} M16-4-3-{5,6}
T3-{997-1032}	EP3-6-3-{2-7, 9-14}	M16-5-3-{2,3} M16-4-3-{2,3}	M16-5-3-{6,7} M16-4-3-{6,7}
T3-{1057-1092}	EP3-7-1-{2-7, 9-14}	M16-5-3-{3,4} M16-4-3-{3,4}	M16-5-3-{7,8} M16-4-3-{7,8}
T3-{1093-1128}	EP3-7-3-{2-7, 9-14}	M16-5-3-{4,9} M16-4-3-{4,9}	M16-5-3-{8,13} M16-4-3-{8,13}
T3-{1153-1188}	EP3-8-1-{2-7, 9-14}	M16-5-3-{9,10} M16-4-3-{9,10}	M16-5-3-{13,14} M16-4-3-{13,14}
T3-{1189-1224}	EP3-8-3-{2-7, 9-14}	M16-5-3-{10,11} M16-4-3-{10,11}	M16-5-3-{14,15} M16-4-3-{14,15}
T3-{1249-1284} reserved			
T3-{1285-1320}	EP3-9-3-{2-7, 9-14}	M16-5-3-{11,12} M16-4-3-{11,12}	M16-5-3-{15,16} M16-4-3-{15,16}
T3-{1345-1380}	EP3-12-1-{2-7, 9-14}	M16-10-3-{1,2} M16-11-3-{1,2}	M16-10-3-{5,6} M16-11-3-{5,6}
T3-{1381-1416}	EP3-12-3-{2-7, 9-14}	M16-10-3-{2,3} M16-11-3-{2,3}	M16-10-3-{6,7} M16-11-3-{6,7}
T3-{1441-1476}	EP3-13-1-{2-7, 9-14}	M16-10-3-{3,4} M16-11-3-{3,4}	M16-10-3-{7,8} M16-11-3-{7,8}
T3-{1477-1512}	EP3-13-3-{2-7, 9-14}	M16-10-3-{4,9} M16-11-3-{4,9}	M16-10-3-{8,13} M16-11-3-{8,13}
T3-{1537-1572}	EP3-14-1-{2-7, 9-14}	M16-10-3-{9,10} M16-11-3-{9,10}	M16-10-3-{13,14} M16-11-3-{13,14}
T3-{1573-1608}	EP3-14-3-{2-7, 9-14}	M16-10-3-{10,11} M16-11-3-{10,11}	M16-10-3-{14,15} M16-11-3-{14,15}
T3-{1633-1668}	EP3-15-1-{2-7, 9-14}	M16-10-3-{11,12} M16-11-3-{11,12}	M16-10-3-{15,16} M16-11-3-{15,16}
T3-{1669-1704} reserved			

Table 5-G. DS3 Port (Asynchronous I/O) Equipment Arrangement¹

DS3 PORTS	HMU	LMU	OXB
T3-{1-8}	HMU-44-1-{1-8}	LMU-44-1-{1-32}	OXB-44-{1-4}-1
T3-{9-16}	HMU-44-2-{1-8}	LMU-44-2-{1-32}	(Copy 0)
T3-{17-24}	HMU-44-3-{1-8}	LMU-44-3-{1-32}	OXB-44-{1-4}-2
T3-{25-32}	HMU-44-4-{1-8}	LMU-44-4-{1-32}	(Copy 1)
T3-{97-104}	HMU-45-1-{1-8}	LMU-45-1-{1-32}	OXB-45-{1-4}-1
T3-{105-112}	HMU-45-2-{1-8}	LMU-45-2-{1-32}	(Copy 0)
T3-{113-120}	HMU-45-3-{1-8}	LMU-45-3-{1-32}	OXB-45-{1-4}-2
T3-{121-128}	HMU-45-4-{1-8}	LMU-45-4-{1-32}	(Copy 1)
T3-{193-200}	HMU-46-1-{1-8}	LMU-46-1-{1-32}	OXB-46-{1-4}-1
T3-{201-208}	HMU-46-2-{1-8}	LMU-46-2-{1-32}	(Copy 0)
T3-{209-216}	HMU-46-3-{1-8}	LMU-46-3-{1-32}	OXB-46-{1-4}-2
T3-{217-224}	HMU-46-4-{1-8}	LMU-46-4-{1-32}	(Copy 1)
T3-{289-296}	HMU-47-1-{1-8}	LMU-47-1-{1-32}	OXB-47-{1-4}-1
T3-{297-304}	HMU-47-2-{1-8}	LMU-47-2-{1-32}	(Copy 0)
T3-{305-312}	HMU-47-3-{1-8}	LMU-47-3-{1-32}	OXB-47-{1-4}-2
T3-{313-320}	HMU-47-4-{1-8}	LMU-47-4-{1-32}	(Copy 1)
T3-{385-392}	HMU-48-1-{1-8}	LMU-48-1-{1-32}	OXB-48-{1-4}-1
T3-{393-400}	HMU-48-2-{1-8}	LMU-48-2-{1-32}	(Copy 0)
T3-{401-408}	HMU-48-3-{1-8}	LMU-48-3-{1-32}	OXB-48-{1-4}-2
T3-{409-416}	HMU-48-4-{1-8}	LMU-48-4-{1-32}	(Copy 1)
T3-{481-488}	HMU-49-1-{1-8}	LMU-49-1-{1-32}	OXB-49-{1-4}-1
T3-{489-496}	HMU-49-2-{1-8}	LMU-49-2-{1-32}	(Copy 0)
T3-{497-504}	HMU-49-3-{1-8}	LMU-49-3-{1-32}	OXB-49-{1-4}-2
T3-{505-512}	HMU-49-4-{1-8}	LMU-49-4-{1-32}	(Copy 1)
T3-{577-584}	HMU-50-1-{1-8}	LMU-50-1-{1-32}	OXB-50-{1-4}-1
T3-{585-592}	HMU-50-2-{1-8}	LMU-50-2-{1-32}	(Copy 0)
T3-{593-600}	HMU-50-3-{1-8}	LMU-50-3-{1-32}	OXB-50-{1-4}-2
T3-{601-608}	HMU-50-4-{1-8}	LMU-50-4-{1-32}	(Copy 1)
T3-{673-680}	HMU-51-1-{1-8}	LMU-51-1-{1-32}	OXB-51-{1-4}-1
T3-{681-688}	HMU-51-2-{1-8}	LMU-51-2-{1-32}	(Copy 0)
T3-{689-696}	HMU-51-3-{1-8}	LMU-51-3-{1-32}	OXB-51-{1-4}-2
T3-{697-704}	HMU-51-4-{1-8}	LMU-51-4-{1-32}	(Copy 1)
T3-{769-776}	HMU-52-1-{1-8}	LMU-52-1-{1-32}	OXB-52-{1-4}-1
T3-{777-784}	HMU-52-2-{1-8}	LMU-52-2-{1-32}	(Copy 0)

Table 5-G. DS3 Port (Asynchronous I/O) Equipment Arrangement¹ (cont.)

DS3 PORTS	HMU	LMU	OXB
T3-{785-792}	HMU-52-3-{1-8}	LMU-52-3-{1-32}	OXB-52-{1-4}-2 (Copy 1)
T3-{793-800}	HMU-52-4-{1-8}	LMU-52-4-{1-32}	
T3-{865-972}	HMU-53-1-{1-8}	LMU-53-1-{1-32}	OXB-53-{1-4}-1 (Copy 0)
T3-{873-880}	HMU-53-2-{1-8}	LMU-53-2-{1-32}	
T3-{881-888}	HMU-53-3-{1-8}	LMU-53-3-{1-32}	OXB-53-{1-4}-2 (Copy 1)
T3-{889-896}	HMU-53-4-{1-8}	LMU-53-4-{1-32}	

[1] Refer to table 5-K for asynchronous-to-matrix equipment arrangement.

Table 5-H. DS1 Port (Asynchronous I/O) Equipment Arrangement

DS1 PORTS	RACK AND SHELF	OXB
T1-{1-56, 65-120, 129-184, 193-248}	DSI-44-1-{1-32}	OXB-44-{1-4}-1 (Copy 0)
T1-{257-312, 321-376, 385-440, 449-504}	DSI-44-2-{1-32}	
T1-{513-568, 577-632, 641-696, 705-760}	DSI-44-3-{1-32}	OXB-44-{1-4}-2 (Copy 1)
T1-{769-824, 833-888, 897-952, 961-1016}	DSI-44-4-{1-32}	
T1-{3073-3128, 3137-3192, 3201-3256, 3265-3320}	DSI-45-1-{1-32}	OXB-45-{1-4}-1 (Copy 0)
T1-{3329-3384, 3393-3448, 3457-3512, 3521-3576}	DSI-45-2-{1-32}	
T1-{3585-3640, 3649-3704, 3713-3768, 3777-3832}	DSI-45-3-{1-32}	OXB-45-{1-4}-2 (Copy 1)
T1-{3841-3896, 3905-3960, 3969-4024 4033-4088}	DSI-45-4-{1-32}	
T1-{6145-6200, 6209-6264, 6273-6328, 6337-6392}	DSI-46-1-{1-32}	OXB-46-{1-4}-1 (Copy 0)
T1-{6401-6456, 6465-6520, 6529-6584, 6593-6648}	DSI-46-2-{1-32}	
T1-{6657-6712, 6721-6776, 6785-6840, 6849-6904}	DSI-46-3-{1-32}	OXB-46-{1-4}-2 (Copy 1)
T1-{6913-6968, 6977-7032, 7041-7096 7105-7160}	DSI-46-4-{1-32}	
T1-{9217-9272, 9281-9336, 9345-9400, 9409-9464}	DSI-47-1-{1-32}	OXB-47-{1-4}-1 (Copy 0)
T1-{9473-9528, 9537-9592, 9601-9656, 9665-9720}	DSI-47-2-{1-32}	
T1-{9729-9784, 9793-9848, 9857-9912, 9921-9976}	DSI-47-3-{1-32}	OXB-47-{1-4}-2 (Copy 1)
T1-{9985-10040, 10049-10104, 10113-10168, 10177-10232}	DSI-47-4-{1-32}	
T1-{12289-12344, 12353-12408, 12417-12472, 12481-12536}	DSI-48-1-{1-32}	OXB-48-{1-4}-1 (Copy 0)
T1-{12545-12600, 12609-12664, 12673-12728, 12737-12792}	DSI-48-2-{1-32}	

Table 5-H. DS1 Port (Asynchronous I/O) Equipment Arrangement (cont.)

DS1 PORTS	RACK AND SHELF	OXB
T1-{12801-12856, 12865-12920, 12929-12984, 12993-13048}	DSI-48-3-{1-32}	OXB-48-{1-4}-2 (Copy 1)
T1-{13057-13112, 13121-13176, 13185-13240, 13249-13304}	DSI-48-4-{1-32}	
T1-{15361-15416, 15425-15480, 15489-15544, 15553-15608}	DSI-49-1-{1-32}	OXB-49-{1-4}-1 (Copy 0)
T1-{15617-15672, 15681-15736, 15745-15800, 15809-15864}	DSI-49-2-{1-32}	
T1-{15873-15928, 15937-15992, 16001-16056, 16065-16120}	DSI-49-3-{1-32}	
T1-{16129-16184, 16193-16248, 16257-16312, 16321-16376}	DSI-49-4-{1-32}	
T1-{18433-18488, 18497-18522, 18561-18616, 18625-18680}	DSI-50-1-{1-32}	OXB-50-{1-4}-1 (Copy 0)
T1-{18689-18744, 18753-18808, 18817-18872, 18881-18936}	DSI-50-2-{1-32}	
T1-{18945-19000, 19009-19064, 19073-19128, 19137-19192}	DSI-50-3-{1-32}	
T1-{19201-19256, 19265-19320, 19329-19384, 19393-19448}	DSI-50-4-{1-32}	
T1-{21505-21560, 21569-21624, 21633-21688, 21697-21752}	DSI-51-1-{1-32}	OXB-51-{1-4}-1 (Copy 0)
T1-{21761-21816, 21825-21880, 21889-21944, 21953-22008}	DSI-51-2-{1-32}	
T1-{22017-22072, 22081-22136, 22145-22200, 22209-22264}	DSI-51-3-{1-32}	
T1-{22273-22328, 22337-22392, 22401-22456, 22465-22520}	DSI-51-4-{1-32}	
T1-{24577-24632, 24641-24696, 24705-24760, 24769-24824}	DSI-52-1-{1-32}	OXB-52-{1-4}-1 (Copy 0)
T1-{24833-24888, 24897-24952, 24961-25016, 25025-25080}	DSI-52-2-{1-32}	
T1-{25089-25144, 25153-25208, 25217-25272, 25281-25336}	DSI-52-3-{1-32}	
T1-{25345-25400, 25409-25464, 25473-25528, 25537-25592}	DSI-52-4-{1-32}	
T1-{27649-27704, 27713-27768, 27777-27832, 27841-27896}	DSI-53-1-{1-32}	OXB-53-{1-4}-1 (Copy 0)
T1-{27905-27960, 27969-28024, 28033-28088, 28097-28152}	DSI-53-2-{1-32}	

Table 5-H. DS1 Port (Asynchronous I/O) Equipment Arrangement (cont.)

DS1 PORTS	RACK AND SHELF	OXB
T1-{28161-28216, 28225-28280, 28289-28344, 28353-28408}	DSI-53-3-{1-32}	OXB-53-{1-4}-2 (Copy 1)
T1-{28417-28472, 28481-28536, 28545-28600, 28609-28664}	DSI-53-4-{1-32}	
T1-{30721-30776, 30785-30840, 30849-30904, 30913-3068}	DSI-54-1-{1-32}	OXB-54-{1-4}-1 (Copy 0)
T1-{30977-31032, 31041-31096, 31105-31160, 31169-31224}	DSI-54-2-{1-32}	
T1-{31233-31288, 31297-31352, 31361-31416, 31425-31480}	DSI-54-3-{1-32}	OXB-54-{1-4}-2 (Copy 1)
T1-{31489-31544, 31553-31608, 31617-31772, 31681-31736}	DSI-54-4-{1-32}	
T1-{33793-33848, 33857-33912, 32921-33976, 33985-34040}	DSI-55-1-{1-32}	OXB-55-{1-4}-1 (Copy 0)
T1-{34049-34104, 34113-34168, 34177-34232, 34241-33496}	DSI-55-2-{1-32}	
T1-{34305-34360, 34369-34424, 34433-34488, 34497-34552}	DSI-55-3-{1-32}	OXB-55-{1-4}-2 (Copy 1)
T1-{34561-34616, 34625-34680, 34689-34774 34753-34808}	DSI-55-4-{1-32}	
T1-{36865-36920, 36929-36984, 36993-37048, 37057-37112}	DSI-56-1-{1-32}	OXB-56-{1-4}-1 (Copy 0)
T1-{37121-37176, 37185-37240, 37249-37304, 37313-37368}	DSI-56-2-{1-32}	
T1-{37377-37432, 37441-37496, 37505-37560, 37569-37624}	DSI-56-3-{1-32}	OXB-56-{1-4}-2 (Copy 1)
T1-{37633-37688, 37697-37752, 37761-37816 37825-37880}	DSI-56-4-{1-32}	
T1-{39937-39992, 40001-40056, 40065-40120, 40129-40184}	DSI-57-1-{1-32}	OXB-57-{1-4}-1 (Copy 0)
T1-{40193-40248, 40257-40312, 40321-40376, 40385-40440}	DSI-57-2-{1-32}	
T1-{40449-40504, 40513-40568, 40577-40632, 40641-40696}	DSI-57-3-{1-32}	OXB-57-{1-4}-2 (Copy 1)
T1-{40705-40760, 40769-40824, 40833-40888, 40897-40952}	DSI-57-4-{1-32}	
T1-{43009-43064, 43073-43128, 43137-43192, 43201-43256}	DSI-58-1-{1-32}	OXB-58-{1-4}-1 (Copy 0)
T1-{43265-43320, 43329-43384, 43393-43448, 43457-43512}	DSI-58-2-{1-32}	

Table 5-H. DS1 Port (Asynchronous I/O) Equipment Arrangement (cont.)

DS1 PORTS	RACK AND SHELF	OXB
T1-{43521-43576, 43585-43640, 43649-43704, 437133-43768}	DSI-58-3-{1-32}	OXB-58-{1-4}-2 (Copy 1)
T1-{43777-43832, 43841-43896, 43905-43960, 43969-44024}	DSI-58-4-{1-32}	
T1-{46081-46136, 46145-46200, 46209-46264, 46273-46328}	DSI-59-1-{1-32}	OXB-59-{1-4}-1 (Copy 0)
T1-{46337-46392, 46401-46456, 46465-46520, 46529-46584}	DSI-59-2-{1-32}	
T1-{46593-46648, 46657-46712, 46721-46446, 46785-46840}	DSI-59-3-{1-32}	
T1-{46849-46904, 46913-46968, 46977-47032, 47041-47096}	DSI-59-4-{1-32}	
T1-{49153-49208, 49217-49272, 49281-49336, 49345-49400}	DSI-60-1-{1-32}	OXB-60-{1-4}-1 (Copy 0)
T1-{49409-49464, 49473-49528, 49537-49592, 49601-49056}	DSI-60-2-{1-32}	
T1-{49665-49720, 49729-49784, 49793-49848, 49857-49912}	DSI-60-3-{1-32}	
T1-{49921-49976, 49985-50040, 50049-50104, 50113-50168}	DSI-60-4-{1-32}	
T1-{52225-52280, 53389-52344, 52353-52408, 52417-52472}	DSI-61-1-{1-32}	OXB-61-{1-4}-1 (Copy 0)
T1-{52481-52436, 52545-52600, 52609-52664, 52673-52728}	DSI-61-2-{1-32}	
T1-{52737-52792, 52801-52856, 52865-52920, 52929-52984}	DSI-61-3-{1-32}	
T1-{52993-53048, 53057-53112, 53121-53176, 53185-53240}	DSI-61-4-{1-32}	
T1-{55297-55352, 55361-55416, 55425-55480, 55489-55544}	DSI-62-1-{1-32}	OXB-62-{1-4}-1 (Copy 0)
T1-{55553-55608, 55617-55672, 55681-55736, 55745-55800}	DSI-62-2-{1-32}	
T1-{55809-55864, 55873-55928, 55937-55992, 56001-56056}	DSI-62-3-{1-32}	
T1-{56065-56120, 56129-56184, 56193-56248, 56257-56312}	DSI-62-4-{1-32}	
T1-{58369-58424, 58433-58488, 58497-58552, 58561-58616}	DSI-63-1-{1-32}	OXB-63-{1-4}-1 (Copy 0)
T1-{58625-58680, 58689-58744, 58753-58808, 58817-58872}	DSI-63-2-{1-32}	

Table 5-H. DS1 Port (Asynchronous I/O) Equipment Arrangement (cont.)

DS1 PORTS	RACK AND SHELF	OXB
T1-{58881-58936, 58945-59000, 59009-59064, 59073-59128}	DSI-63-3-{1-32}	OXB-63-{1-4}-2 (Copy 1)
T1-{59137-59192, 59201-59256, 59265-59320, 59329-59384}	DSI-63-4-{1-32}	

Table 5-I. Facility AIDs for DS3 and DS1 I/O Racks

I/O EQUIPMENT AID	DS3 AID (DS3 RACK ONLY)	EMBEDDED DS1 AID (DS3 RACK ONLY)	DS1 AID (DS1 RACK ONLY)
HMU-44-{1-4}-{1-8} LMU-44-{1-4}-{1-32} DSI-44-{1-4}-{1-32}	T3-{1-32}	T3T1-{1-32}-{1-28}	T1-{1-1024}
HMU-45-{1-4}-{1-8} LMU-45-{1-4}-{1-32} DSI-45-{1-4}-{1-32}	T3-{97-128}	T3T1-{97-128}-{1-28}	T1-{3073-4096}
HMU-46-{1-4}-{1-8} LMU-46-{1-4}-{1-32} DSI-46-{1-4}-{1-32}	T3-{193-224}	T3T1-{193-224}-{1-28}	T1-{6145-7168}
HMU-47-{1-4}-{1-8} LMU-47-{1-4}-{1-32} DSI-47-{1-4}-{1-32}	T3-{289-320}	T3T1-{289-320}-{1-28}	T1-{9217-10240}
HMU-48-{1-4}-{1-8} LMU-48-{1-4}-{1-32} DSI-48-{1-4}-{1-32}	T3-{385-416}	T3T1-{385-416}-{1-28}	T1-{12289-13312}
HMU-49-{1-4}-{1-8} LMU-49-{1-4}-{1-32} DSI-49-{1-4}-{1-32}	T3-{481-512}	T3T1-{481-512}-{1-28}	T1-{15361-16384}
HMU-50-{1-4}-{1-8} LMU-50-{1-4}-{1-32} DSI-50-{1-4}-{1-32}	T3-{577-608}	T3T1-{577-608}-{1-28}	T1-{18433-19456}
HMU-51-{1-4}-{1-8} LMU-51-{1-4}-{1-32} DSI-51-{1-4}-{1-32}	T3-{673-704}	T3T1-{673-704}-{1-28}	T1-{21505-22528}
HMU-52-{1-4}-{1-8} LMU-52-{1-4}-{1-32} DSI-52-{1-4}-{1-32}	T3-{769-800}	T3T1-{769-800}-{1-28}	T1-{24577-25600}
HMU-53-{1-4}-{1-8} LMU-53-{1-4}-{1-32} DSI-53-{1-4}-{1-32}	T3-{865-896}	T3T1-{865-896}-{1-28}	T1-{27649-28672}

Table 5-I. Facility AIDs for DS3 and DS1 I/O Racks (cont.)

I/O EQUIPMENT AID	DS3 AID (DS3 RACK ONLY)	EMBEDDED DS1 AID (DS3 RACK ONLY)	DS1 AID (DS1 RACK ONLY)
HMU-54-{1-4}-{1-8} LMU-54-{1-4}-{1-32} DSI-54-{1-4}-{1-32}	Not used	Not used	T1-{30721-31744}
HMU-55-{1-4}-{1-8} LMU-55-{1-4}-{1-32} DSI-55-{1-4}-{1-32}	Not used	Not used	T1-{33793-34816}
HMU-56-{1-4}-{1-8} LMU-56-{1-4}-{1-32} DSI-56-{1-4}-{1-32}	Not used	Not used	T1-{36865-37888}
HMU-57-{1-4}-{1-8} LMU-57-{1-4}-{1-32} DSI-57-{1-4}-{1-32}	Not used	Not used	T1-{39937-40960}
HMU-58-{1-4}-{1-8} LMU-58-{1-4}-{1-32} DSI-58-{1-4}-{1-32}	Not used	Not used	T1-{43009-44032}
HMU-59-{1-4}-{1-8} LMU-59-{1-4}-{1-32} DSI-59-{1-4}-{1-32}	Not used	Not used	T1-{46081-47104}
HMU-60-{1-4}-{1-8} LMU-60-{1-4}-{1-32} DSI-60-{1-4}-{1-32}	Not used	Not used	T1-{49153-50176}
HMU-61-{1-4}-{1-8} LMU-61-{1-4}-{1-32} DSI-61-{1-4}-{1-32}	Not used	Not used	T1-{52225-53248}
HMU-62-{1-4}-{1-8} LMU-62-{1-4}-{1-32} DSI-62-{1-4}-{1-32}	Not used	Not used	T1-{55297-56320}
HMU-63-{1-4}-{1-8} LMU-63-{1-4}-{1-32} DSI-63-{1-4}-{1-32}	Not used	Not used	T1-{58369-59382}

Table 5-J. I/O Shelf Equipage and LMC 240 Matrix Arrangement

SI48 SHELF (COMPANION / ASYNC RACK #)	MATRIX COPY	EOB Module	1ST END-STAGE	3RD END-STAGE
6-1(112-1/48)	Copy 0	EOB-5-3-1	M32-5-3-1	M32-5-3-6
	Copy 1	EOB-5-1-1	M32-5-1-1	M32-5-1-6
6-3(112-3/47)	Copy 0	EOB-5-3-2	M32-5-3-1 M32-5-3-2	M32-5-3-6 M32-5-3-7
	Copy 1	EOB-5-1-2	M32-5-1-1 M32-5-1-2	M32-5-1-6 M32-5-1-7
7-1(113-1/46)	Copy 0	EOB-5-3-3	M32-5-3-2	M32-5-3-7
	Copy 1	EOB-5-1-3	M32-5-1-2	M32-5-1-7
7-3(113-3/45)	Copy 0	EOB-5-3-4	M32-5-3-2 M32-5-3-3	M32-5-3-7 M32-5-3-8
	Copy 1	EOB-5-1-4	M32-5-1-2 M32-5-1-3	M32-5-1-7 M32-5-1-8
9-3(9-1/44)	Copy 0	EOB-5-3-5	M32-5-3-3	M32-5-3-8
	Copy 1	EOB-5-1-5	M32-5-1-3	M32-5-1-8
Each of the five matrix groups can support one of the following: electrical SI48 shelf, optical SI48 companion shelf, or asynchronous DS3/DS1 rack (44-48).				

Figure 5-1. LMC 240 Matrix Shelf

	X011	MCB*	MASTER CLOCK	X011
M40	MATRIX 9	M40	MATRIX 1	X031
M40	MATRIX 10	M40	MATRIX 2	X051
M40	MATRIX 11	M40	MATRIX 3	X071
M40	MATRIX 12	M40	MATRIX 4	X091
M40	MATRIX 13	M40	MATRIX 5	X111
M40	MATRIX 14	M40	MATRIX 6	X131
M40	MATRIX 15	M40	MATRIX 7	X151
M40	MATRIX 16	M40	MATRIX 8	X171
CDB	CLK DISTR 2	CDB	CLK DISTR 1	X191
SPB	SATL PRCR 2	SPB	SATL PRCR 1	X211
P56	5V PWR CONV 3	P56	5V PWR CONV 1	X221
P56	5V PWR CONV P	P56	5V PWR CONV 2	X231
				X241
				X251

*THE MCB IS EQUIPPED ONLY IN THE BOTTOM CENTER-STAGE SHELF.

129-0363-1
011501

Table 5-K. SI48 Shelf Equipage and End-Stage Matrix Arrangement

SI48 SHELF (COMPANION)	MATRIX COPY	EOC SHELF	1ST END-STAGE	3RD END-STAGE
6-1(112-1)	Copy 0	EOB-5-1-1	M32-5-3-{1,2}	M32-5-3-{5,6}
	Copy 1	EOB-4-1-1	M32-4-3-{1,2}	M32-4-3-{5,6}
6-3(112-3)	Copy 0	EOB-5-1-3	M32-5-3-{2,3}	M32-5-3-{6,7}
	Copy 1	EOB-4-1-3	M32-4-4-{2,3}	M32-4-3-{6,7}
7-1(113-1)	Copy 0	EOB-5-1-5	M32-5-3-{3,4}	M32-5-3-{7,8}
	Copy 1	EOB-4-1-5	M32-4-3-{3,4}	M32-4-3-{7,8}
7-3(113-3)	Copy 0	EOB-5-1-7	M32-5-3-{4,9}	M32-5-3-{8,13}
	Copy 1	EOB-4-1-7	M32-4-3-{4,9}	M32-4-3-{8,13}
8-1(114-1)	Copy 0	EOB-5-1-10	M32-5-3-{9,10}	M32-5-3-{13,14}
	Copy 1	EOB-4-1-10	M32-4-3-{9,10}	M32-4-3-{13,14}
8-3(114-3)	Copy 0	EOB-5-1-12	M32-5-3-{10,11}	M32-5-3-{14,15}
	Copy 1	EOB-4-1-12	M32-4-3-{10,11}	M32-4-3-{14,15}
9-3(9-1)	Copy 0	EOB-5-1-14	M32-5-3-{11,12}	M32-5-3-{15,16}
	Copy 1	EOB-4-1-14	M32-4-3-{11,12}	M32-4-3-{15,16}
12-1(115-1)	Copy 0	EOB-10-1-1	M32-10-3-{1,2}	M32-10-3-{5,6}
	Copy 1	EOB-11-1-1	M32-11-3-{1,2}	M32-11-3-{5,6}
12-3(115-3)	Copy 0	EOB-10-1-3	M32-10-3-{2,3}	M32-10-3-{6,7}
	Copy 1	EOB-11-1-3	M32-11-3-{2,3}	M32-11-3-{6,7}
13-1(116-1)	Copy 0	EOB-10-1-5	M32-10-3-{3,4}	M32-10-3-{7,8}
	Copy 1	EOB-11-1-5	M32-11-3-{3,4}	M32-11-3-{7,8}
13-3(116-3)	Copy 0	EOB-10-1-7	M32-10-3-{4,9}	M32-10-3-{8,13}
	Copy 1	EOB-11-1-7	M32-11-3-{4,9}	M32-11-3-{8,13}
14-1(117-1)	Copy 0	EOB-10-1-10	M32-10-3-{9,10}	M32-10-3-{13,14}
	Copy 1	EOB-11-1-10	M32-11-3-{9,10}	M32-11-3-{13,14}
14-3(117-3)	Copy 0	EOB-10-1-12	M32-10-3-{10,11}	M32-10-3-{14,15}
	Copy 1	EOB-11-1-12	M32-11-3-{10,11}	M32-11-3-{14,15}
15-1(15-3)	Copy 0	EOB-10-1-14	M32-10-3-{11,12}	M32-10-3-{15,16}
	Copy 1	EOB-11-1-14	M32-11-3-{11,12}	M32-11-3-{15,16}
18-1(118-1)	Copy 0	EOB-16-1-1	M32-16-3-{1,2}	M32-16-3-{5,6}
	Copy 1	EOB-17-1-1	M32-17-3-{1,2}	M32-17-3-{5,6}
18-3(118-1)	Copy 0	EOB-16-1-3	M32-16-3-{2,3}	M32-16-3-{6,7}
	Copy 1	EOB-17-1-3	M32-17-3-{2,3}	M32-17-3-{6,7}
19-1(119-1)	Copy 0	EOB-16-1-5	M32-16-3-{3,4}	M32-16-3-{7,8}
	Copy 1	EOB-17-1-5	M32-17-3-{3,4}	M32-17-3-{7,8}

Table 5-K. SI48 Shelf Equipage and End-Stage Matrix Arrangement (cont.)

SI48 SHELF (COMPANION)	MATRIX COPY	EOC SHELF	1ST END-STAGE	3RD END-STAGE
19-3(119-3)	Copy 0	EOB-16-1-7	M32-16-3-{4,9}	M32-16-3-{8,13}
	Copy 1	EOB-17-1-7	M32-17-3-{4,9}	M32-17-3-{8,13}
20-1(120-1)	Copy 0	EOB-16-1-10	M32-16-3-{9,10}	M32-16-3-{13,14}
	Copy 1	EOB-17-1-10	M32-17-3-{9,10}	M32-17-3-{13,14}
20-3(120-3)	Copy 0	EOB-16-1-12	M32-16-3-{10,11}	M32-16-3-{14,15}
	Copy 1	EOB-17-1-12	M32-17-3-{10,11}	M32-17-3-{14,15}
21-3(21-1)	Copy 0	EOB-16-1-14	M32-16-3-{11,12}	M32-16-3-{15,16}
	Copy 1	EOB-17-1-14	M32-17-3-{11,12}	M32-17-3-{15,16}
24-1(121-1)	Copy 0	EOB-23-1-1	M32-23-3-{1,2}	M32-23-3-{5,6}
	Copy 1	EOB-22-1-1	M32-22-3-{1,2}	M32-22-3-{5,6}
24-3(121-3)	Copy 0	EOB-23-1-3	M32-23-3-{2,3}	M32-23-3-{6,7}
	Copy 1	EOB-22-1-3	M32-22-3-{2,3}	M32-22-3-{6,7}
25-1(122-1)	Copy 0	EOB-23-1-5	M32-23-3-{3,4}	M32-23-3-{7,8}
	Copy 1	EOB-22-1-5	M32-22-3-{3,4}	M32-22-3-{7,8}
25-3(122-3)	Copy 0	EOB-23-1-7	M32-23-3-{4,9}	M32-23-3-{8,13}
	Copy 1	EOB-22-1-7	M32-22-3-{4,9}	M32-22-3-{8,13}
26-1(123-1)	Copy 0	EOB-23-1-10	M32-23-3-{9,10}	M32-23-3-{13,14}
	Copy 1	EOB-22-1-10	M32-22-3-{9,10}	M32-22-3-{13,14}
26-3(123-3)	Copy 0	EOB-23-1-12	M32-23-3-{10,11}	M32-23-3-{14,15}
	Copy 1	EOB-22-1-12	M32-22-3-{10,11}	M32-22-3-{14,15}
27-1(27-3)	Copy 0	EOB-23-1-14	M32-23-3-{11,12}	M32-23-3-{15,16}
	Copy 1	EOB-22-1-14	M32-22-3-{11,12}	M32-22-3-{15,16}
28-1(124-1)	Copy 0	EOB-5-1-2	M32-5-3-{1,2}	M32-5-3-{5,6}
	Copy 1	EOB-4-1-2	M32-4-3-{1,2}	M32-4-3-{5,6}
28-3(124-3)	Copy 0	EOB-5-1-4	M32-5-3-{2,3}	M32-5-3-{6,7}
	Copy 1	EOB-4-1-4	M32-4-3-{2,3}	M32-4-3-{6,7}
29-1(125-1)	Copy 0	EOB-5-1-6	M32-5-3-{3,4}	M32-5-3-{7,8}
	Copy 1	EOB-4-1-6	M32-4-3-{3,4}	M32-4-3-{7,8}
29-3(125-3)	Copy 0	EOB-5-1-9	M32-5-3-{4,9}	M32-5-3-{8,13}
	Copy 1	EOB-4-1-9	M32-4-3-{4,9}	M32-4-3-{8,13}
30-1(126-1)	Copy 0	EOB-5-1-11	M32-5-3-{9,10}	M32-5-3-{13,14}
	Copy 1	EOB-4-1-11	M32-4-3-{9,10}	M32-4-3-{13,14}
30-3(126-3)	Copy 0	EOB-5-1-13	M32-5-3-{10,11}	M32-5-3-{14,15}
	Copy 1	EOB-4-1-13	M32-4-3-{10,11}	M32-4-3-{14,15}

Table 5-K. SI48 Shelf Equipage and End-Stage Matrix Arrangement (cont.)

SI48 SHELF (COMPANION)	MATRIX COPY	EOC SHELF	1ST END-STAGE	3RD END-STAGE
31-1(31-3)	Copy 0	EOB-5-1-15	M32-5-3-{11,12}	M32-5-3-{15,16}
	Copy 1	EOB-4-1-15	M32-4-3-{11,12}	M32-4-3-{15,16}
32-1(127-1)	Copy 0	EOB-10-1-2	M32-10-3-{1,2}	M32-10-3-{5,6}
	Copy 1	EOB-11-1-2	M32-11-3-{1,2}	M32-11-3-{5,6}
32-3(127-3)	Copy 0	EOB-10-1-4	M32-10-3-{2,3}	M32-10-3-{6,7}
	Copy 1	EOB-11-1-4	M32-11-3-{2,3}	M32-11-3-{6,7}
33-1(128-1)	Copy 0	EOB-10-1-6	M32-10-3-{3,4}	M32-10-3-{7,8}
	Copy 1	EOB-11-1-6	M32-11-3-{3,4}	M32-11-3-{7,8}
33-3(128-3)	Copy 0	EOB-10-1-9	M32-10-3-{4,9}	M32-10-3-{8,13}
	Copy 1	EOB-11-1-9	M32-11-3-{4,9}	M32-11-3-{8,13}
34-1(129-1)	Copy 0	EOB-10-1-11	M32-10-3-{9,10}	M32-10-3-{13,14}
	Copy 1	EOB-11-1-11	M32-11-3-{9,10}	M32-11-3-{13,14}
34-3(129-3)	Copy 0	EOB-10-1-13	M32-10-3-{10,11}	M32-10-3-{14,15}
	Copy 1	EOB-11-1-13	M32-11-3-{10,11}	M32-11-3-{14,15}
35-3(35-1)	Copy 0	EOB-10-1-15	M32-10-3-{11,12}	M32-10-3-{15,16}
	Copy 1	EOB-11-1-15	M32-11-3-{11,12}	M32-11-3-{15,16}
36-1(130-1)	Copy 0	EOB-16-1-2	M32-16-3-{1,2}	M32-16-3-{5,6}
	Copy 1	EOB-17-1-2	M32-17-3-{1,2}	M32-17-3-{5,6}
36-3(130-3)	Copy 0	EOB-16-1-4	M32-16-3-{2,3}	M32-16-3-{6,7}
	Copy 1	EOB-17-1-4	M32-17-3-{2,3}	M32-17-3-{6,7}
37-1(131-1)	Copy 0	EOB-16-1-6	M32-16-3-{3,4}	M32-16-3-{7,8}
	Copy 1	EOB-17-1-6	M32-17-3-{3,4}	M32-17-3-{7,8}
37-3(131-3)	Copy 0	EOB-16-1-9	M32-16-3-{4,9}	M32-16-3-{8,13}
	Copy 1	EOB-17-1-9	M32-17-3-{4,9}	M32-17-3-{8,13}
38-1(132-1)	Copy 0	EOB-16-1-11	M32-16-3-{9,10}	M32-16-3-{13,14}
	Copy 1	EOB-17-1-11	M32-17-3-{9,10}	M32-17-3-{13,14}
38-3(132-3)	Copy 0	EOB-16-1-13	M32-16-3-{10,11}	M32-16-3-{14,15}
	Copy 1	EOB-17-1-13	M32-17-3-{10,11}	M32-17-3-{14,15}
39-1(39-3)	Copy 0	EOB-16-1-15	M32-16-3-{11,12}	M32-16-3-{15,16}
	Copy 1	EOB-17-1-15	M32-17-3-{11,12}	M32-17-3-{15,16}
40-1(133-1)	Copy 0	EOB-23-1-2	M32-23-3-{1,2}	M32-23-3-{5,6}
	Copy 1	EOB-22-1-2	M32-22-3-{1,2}	M32-22-3-{5,6}
40-3(133-3)	Copy 0	EOB-23-1-4	M32-23-3-{2,3}	M32-23-3-{6,7}
	Copy 1	EOB-22-1-4	M32-22-3-{2,3}	M32-22-3-{6,7}

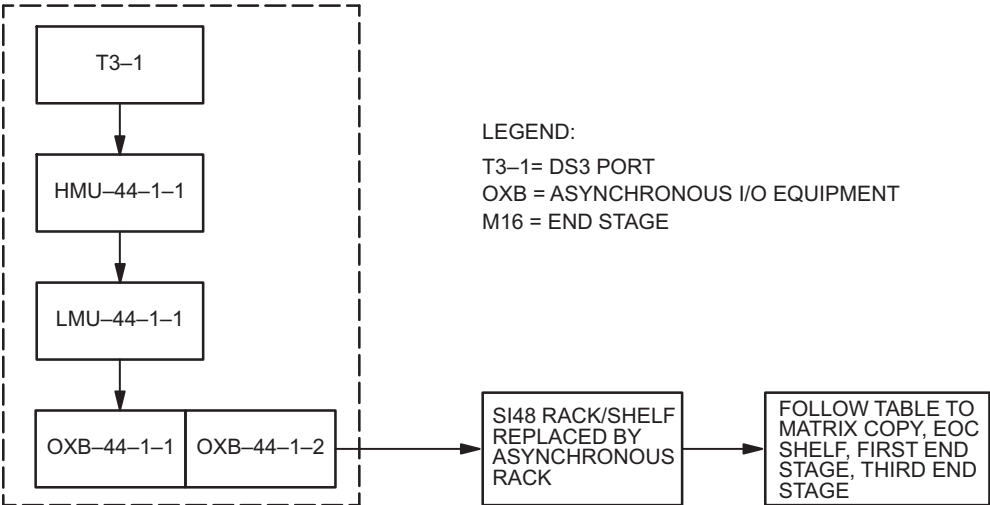
Table 5-K. SI48 Shelf Equipage and End-Stage Matrix Arrangement (cont.)

SI48 SHELF (COMPANION)	MATRIX COPY	EOC SHELF	1ST END-STAGE	3RD END-STAGE
41-1(134-1)	Copy 0	EOB-23-1-6	M32-23-3-{3,4}	M32-23-3-{7,8}
	Copy 1	EOB-22-1-6	M32-22-3-{3,4}	M32-22-3-{7,8}
41-3(134-3)	Copy 0	EOB-23-1-9	M32-23-3-{4,9}	M32-23-3-{8,13}
	Copy 1	EOB-22-1-9	M32-22-3-{4,9}	M32-22-3-{8,13}
42-1(135-1)	Copy 0	EOB-23-1-11	M32-23-3-{9,10}	M32-23-3-{13,14}
	Copy 1	EOB-22-1-11	M32-22-3-{9,10}	M32-22-3-{13,14}
42-3(135-3)	Copy 0	EOB-23-1-13	M32-23-3-{10,11}	M32-23-3-{14,15}
	Copy 1	EOB-22-1-13	M32-22-3-{10,11}	M32-22-3-{14,15}
43-3(43-1)	Copy 0	EOB-23-1-15	M32-23-3-{11,12}	M32-23-3-{15,16}
	Copy 1	EOB-22-1-15	M32-22-3-{11,12}	M32-22-3-{15,16}
104-1(136-1)	Copy 0	EOB-103-1-1	M32-103-3-{1,2}	M32-103-3-{5,6}
	Copy 1	EOB-102-1-1	M32-102-3-{1,2}	M32-102-3-{5,6}
104-3(136-3)	Copy 0	EOB-103-1-3	M32-103-3-{2,3}	M32-103-3-{6,7}
	Copy 1	EOB-102-1-3	M32-102-4-{2,3}	M32-102-3-{6,7}
105-1(137-1)	Copy 0	EOB-102-1-5	M32-103-3-{3,4}	M32-103-3-{7,8}
	Copy 1	EOB-102-1-5	M32-102-3-{3,4}	M32-102-3-{7,8}
105-3(137-3)	Copy 0	EOB-103-1-7	M32-103-3-{4,9}	M32-103-3-{8,13}
	Copy 1	EOB-102-1-7	M32-102-3-{4,9}	M32-102-3-{8,13}

Table 5-K. SI48 Shelf Equipage and End-Stage Matrix Arrangement (cont.)

SI48 SHELF (COMPANION)	MATRIX COPY	EOC SHELF	1ST END-STAGE	3RD END-STAGE
106-1(138-1)	Copy 0	EOB-103-1-10	M32-103-3-{9,10}	M32-103-3-{13,14}
	Copy 1	EOB-102-1-10	M32-102-3-{9,10}	M32-102-3-{13,14}
106-3(138-3)	Copy 0	EOB-103-1-12	M32-103-3-{10,11}	M32-103-3-{14,15}
	Copy 1	EOB-102-1-12	M32-102-3-{10,11}	M32-102-3-{14,15}
107-3(107-1)	Copy 0	EOB-103-1-14	M32-103-3-{11,12}	M32-103-3-{15,16}
	Copy 1	EOB-102-1-14	M32-102-3-{11,12}	M32-102-3-{15,16}
108-1(139-1)	Copy 0	EOB-103-1-1	M32-103-3-{1,2}	M32-103-3-{5,6}
	Copy 1	EOB-102-1-1	M32-102-3-{1,2}	M32-102-3-{5,6}
108-3(139-3)	Copy 0	EOB-103-1-3	M32-103-3-{2,3}	M32-103-3-{6,7}
	Copy 1	EOB-102-1-3	M32-102-3-{2,3}	M32-102-3-{6,7}
109-1(140-1)	Copy 0	EOB-103-1-5	M32-103-3-{3,4}	M32-103-3-{7,8}
	Copy 1	EOB-102-1-5	M32-102-3-{3,4}	M32-102-3-{7,8}
109-3(140-3)	Copy 0	EOB-103-1-7	M32-103-3-{4,9}	M32-103-3-{8,13}
	Copy 1	EOB-102-1-7	M32-102-3-{4,9}	M32-102-3-{8,13}
110-1(141-1)	Copy 0	EOB-103-1-10	M32-103-3-{9,10}	M32-103-3-{13,14}
	Copy 1	EOB-102-1-10	M32-102-3-{9,10}	M32-102-3-{13,14}
110-3(141-3)	Copy 0	EOB-103-1-12	M32-103-3-{10,11}	M32-103-3-{14,15}
	Copy 1	EOB-102-1-12	M32-102-3-{10,11}	M32-102-3-{14,15}
111-1(111-3)	Copy 0	EOB-103-1-14	M32-103-3-{11,12}	M32-103-3-{15,16}
	Copy 1	EOB-102-1-14	M32-102-3-{11,12}	M32-102-3-{15,16}

Figure 5-2. DS1/DS3 Port to End-Stage Equipage Arrangement



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