ETC®

Response DMX/RDM 4 Port Gateway

Gateway Series

CE ETL us c ETL **PoE 802.3af**

GENERAL INFORMATION

ETC's Response DMX/RDM 4 Port Gateway provides data distribution using the quality and reliability of ETC's network technology. Built for Net3 using industry-standard streaming ACN and sACN, the Response Gateway unlocks the power of your networked system. The Response Gateway also uses bi-directional Ethernet communication with other network devices to send or receive DMX512 and Remote Device Management (RDM) signals.

APPLICATIONS
- Rental shops
- Touring
- Professional theatres
- Conference centres
- Tech tables
- Stage managers desk
- System integration

FEATURES
- Distributes DMX and RDM data to any input/output device over Ethernet
- Supports Net3 protocol powered by ACN
- DMX/RDM Output/Input
- Simple configuration and service of each port
- LCD screen for labelling, status and configuration information
- Power and Network status indicators
- Power over Ethernet (PoE) or external DC power supply
- Configurable using Net3 Concert Software

ORDERING INFORMATION

Response 4 Port Gateways

PART NO.	DESCRIPTION
4267A1021	Response 4 Port DMX/RDM Gateway RSN-4OUT - 4 XLR5 Outputs
4267A1022	Response 4 Port DMX/RDM Gateway RSN-4IN - 4 XLR5 Inputs
4267A1023	Response 4 Port DMX/RDM Gateway RSN1IN3OUT - 1 XLR5 In and 3 XLR5 Outputs
4267A1024	Response 4 Port DMX/RDM Gateway RSN-TERM - 4 Terminals
4267A1025	Response 4 Port DMX/RDM Gateway RSN-RJ45 - 4 Neutrik RJ45 connectors
4260A1125	Response 4 Port DMX/RDM Gateway DIN-rail mt. N34G-DIN - 4 Terminals

Four-Port Gateway Accessories

PART NO.	DESCRIPTION
4260K1002	Gateway Front Panel Kit[1] 4 XLR5 Outputs N34G-FP4F
4260K1006	Gateway Front Panel Kit[1] 4 XLR5 Inputs N34G-FP4M
4260K1003	Gateway Front-Panel Kit[1] 2 XLR5 Inputs + 2 XLR5 Outputs. N34G-4P2M2F
PS406-F	Gateway Universal Power Supply[2]
4260K1001	Gateway Rack-Mount Kit. Holds 2 gateways. Includes blanking plate for 1 position. N3GA-RM
4260K1005	Gateway Hanging-Bracket Kit with U-Bolt N3GA-HBU

[1]Does not include required Rack-Mount kit N3GA-RM

[2]Includes plugs for United States/Japan, Europe, and Great Britain.

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SPECIFICATIONS

FUNCTIONAL
- Supports Net3/ACN (ANSI E1.31 and E1.17)
- Supports RDM (ANSI E1.20)
- Supports USITT DMX512-A (ANSI E1.11)
- USITT DMX512 and ANSI E1.11 DMX512-A compliant
- Advanced Input Patch (AIP) allows any incoming address to be associated with any sACN address
- Flexible Output Patch (FOP) allows a 512-address universe to begin at any output address
- Support for per-address- or per-universe-level priority

MECHANICAL
- Menu button for backlight/paging control
- Backlit LCD display for identification and status reporting and basic configuraton.
- Rack-Mount/Portable/Touring
  - Fabricated from 16-gauge cold-rolled steel
  - Black, Fine-textured, powder-coat finish
  - hook clamp and U-bolt hardware available
  - Half 19" equipment rack width allows for up to eight DMX ports in 1U height panel
- DIN rail mounting version complies with DIN43880 (35/7.5 rail)
- Network, power and data activity LED indicators
  - Blue power indicator, green network activity indicator
  - Bi-colour DMX activity indicator
- Front-panel Neutrik RJ45 connector for service connection to lighting network
- Reset button for hard reset or forced reboot

PROCESSOR
- Maximum delay time from input to output not greater than one packet time
- Selectable DMX refresh rate with a maximum at least 40Hz

ENVIRONMENTAL
- Ambient operating temperature: 0° to 40°C (32° to 104°F)
- Operating humidity: 5% - 95% non-condensing
- Storage temperature: -40° to 70°C (-40° to 158°F)

ELECTRICAL
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- Optional 8-28vDC power input for use with non-PoE systems
- Maximum five-watt current draw
- CE compliant and ETL listed

CONFIGURATION
- Configuration provided by Net3 Concert
  - Supports up to 512 DMX addresses per port
  - Supports up to 63,999 Streaming ACN universes
- Up to 2,048 channels in combination of data input or output
- DMX data input or output configurable by user
- Multiple outputs of a single DMX universe (DMX splitter) from a single Gateway
- Supports discrete DMX universe outputs per port
- Multiple sources may be combined to the network with each source or address allowed an independent priority
- Individual port start address and offset
- User-configurable labelling

ADDITIONAL INFORMATION

DMX512
Often shortened to DMX (Digital Multiplex), this communication protocol is used mainly to control dimmers and multi-parameter fixtures. A universe of DMX is defined as 512 channels. DMX sends a nearly continuous stream of level information for each control channel. It is a form of RS-485 digital serial communication.

RDM
Remote Device Management (ANSI E1.20) is a protocol enhancement to DMX512 that allows low-speed bidirectional communication between a system controller and attached RDM devices over a standard DMX line. This protocol will allow remote configuration, status monitoring, and management of devices.

sACN
Streaming ACN (ANSI E1.31), sends DMX-style control over TCP/IP networks. It provides a fast and efficient mechanism to transport the well-understood DMX protocol over Ethernet using an industry-standard protocol.
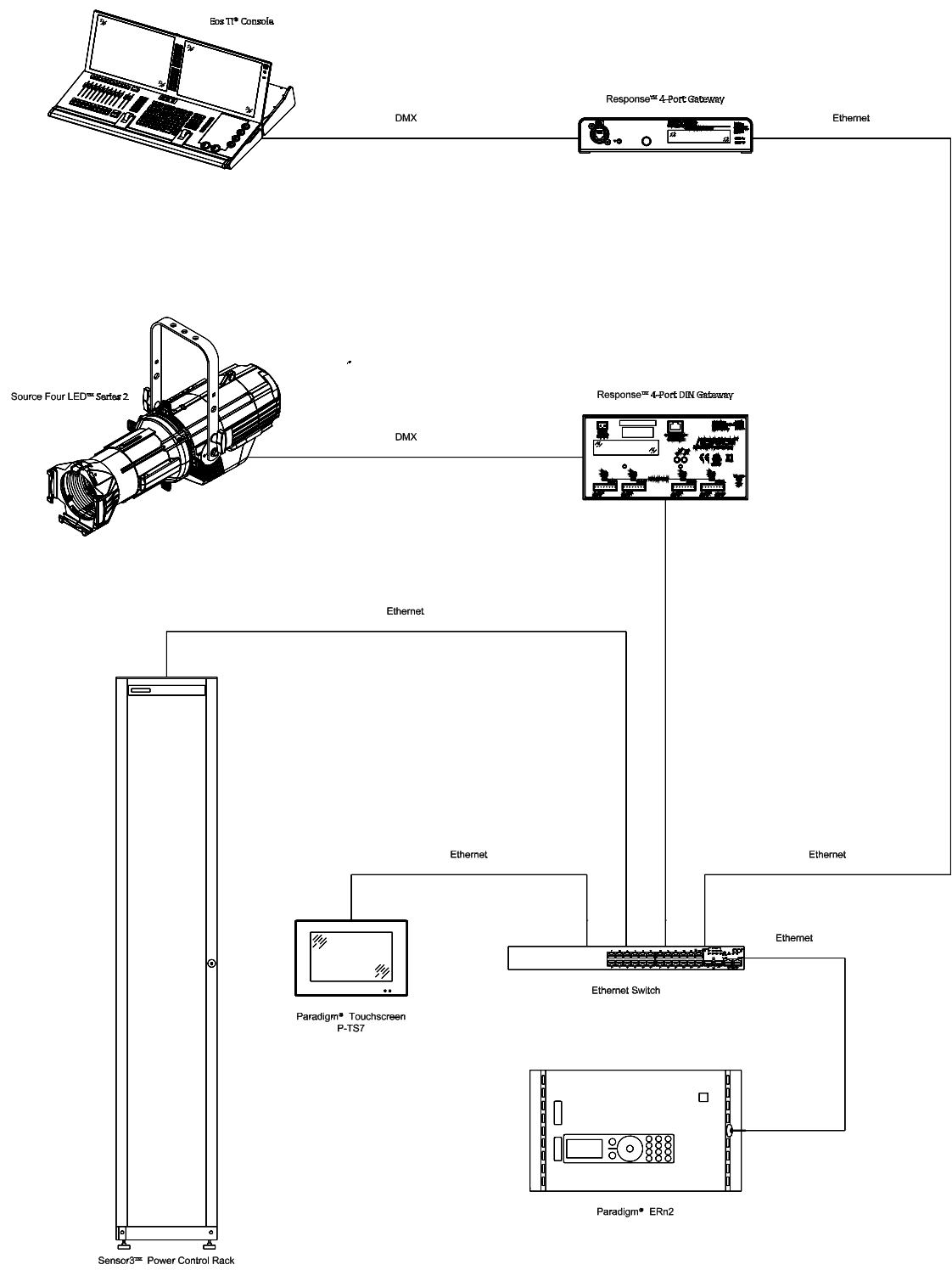
ACN
Architecture for Control Networks (ANSI E1.17) is a standard for high-speed bidirectional communication over TCP/IP on Ethernet network infrastructure. ACN is an open suite of protocols used between network devices for the purposes of greater and more adaptive control.

NET3
ETC's enhanced implementation of the standard ACN Protocol Suite (ANSI E1.17 and E1.31) including additional communication protocols for specialized applications and support of legacy systems.

TYPICAL SYSTEM RISER

Eos Ti® Console

DMX

Response™ 4-Port Gateway

Ethernet

Source Four LED™ Series 2

DMX

Response™ 4-Port DIN Gateway

Ethernet

Ethernet

Ethernet

Ethernet

Paradigm® Touchscreen
P-TS7

Ethernet Switch

Paradigm® ERn2

Sensor3™ Power Control Rack

PHYSICAL

Response Four-Port Gateway Dimensions

MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
Gateway - Standard	44	216	208
Gateway - DIN Rail mount	105	204	41

Response Four-Port Gateways Weights

MODEL	WEIGHT	SHIPPING WEIGHT
	kgs	kgs
RSN-4OUT	0.8	1.6
RSN-4IN	0.8	1.6
RSN-1IN3OUT	0.8	1.6
RSN-TERM	0.8	1.6
RSN-RJ45	0.8	1.6
N34G-DIN	0.5	0.7

Net3 Four-Port Gateway Accessories

MODEL	WEIGHT	SHIPPING WEIGHT
	kgs	kgs
N34G-FP4F1[1]	0.5	0.9
N34G-FP2M2F[1]	0.5	0.9
N3GA-PS	0.2	0.5
N3GA-RM	0.7	0.9
N3GA-HBU	0.4	0.5

[1]Does not include required Rack-Mount Kit