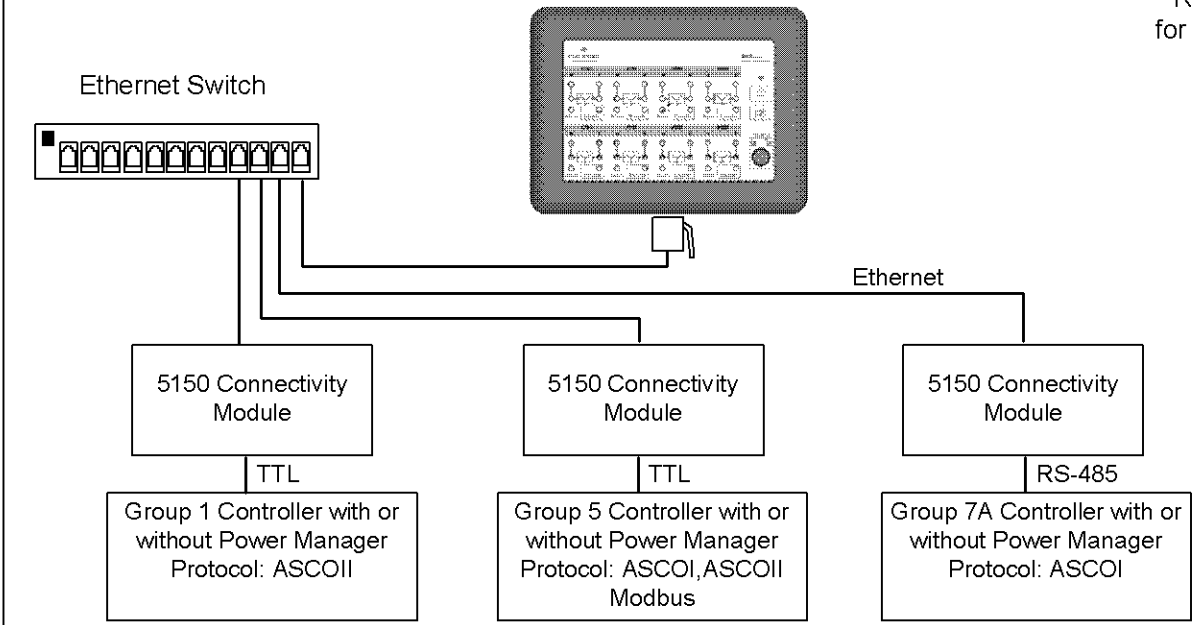


Overall Communication Architecture

Architecture 1: Single ATS Connected to Single Connectivity Module

* Refer Sheet-02 for details



Ethernet Cable Pinout

Pin	Pair	Wire	Color
1	2	1	White /Orange
2	2	2	Orange
3	3	1	White /Green
4	1	2	Blue
5	1	1	White /Blue
6	3	2	Green
7	4	1	White /Brown
8	4	2	Brown

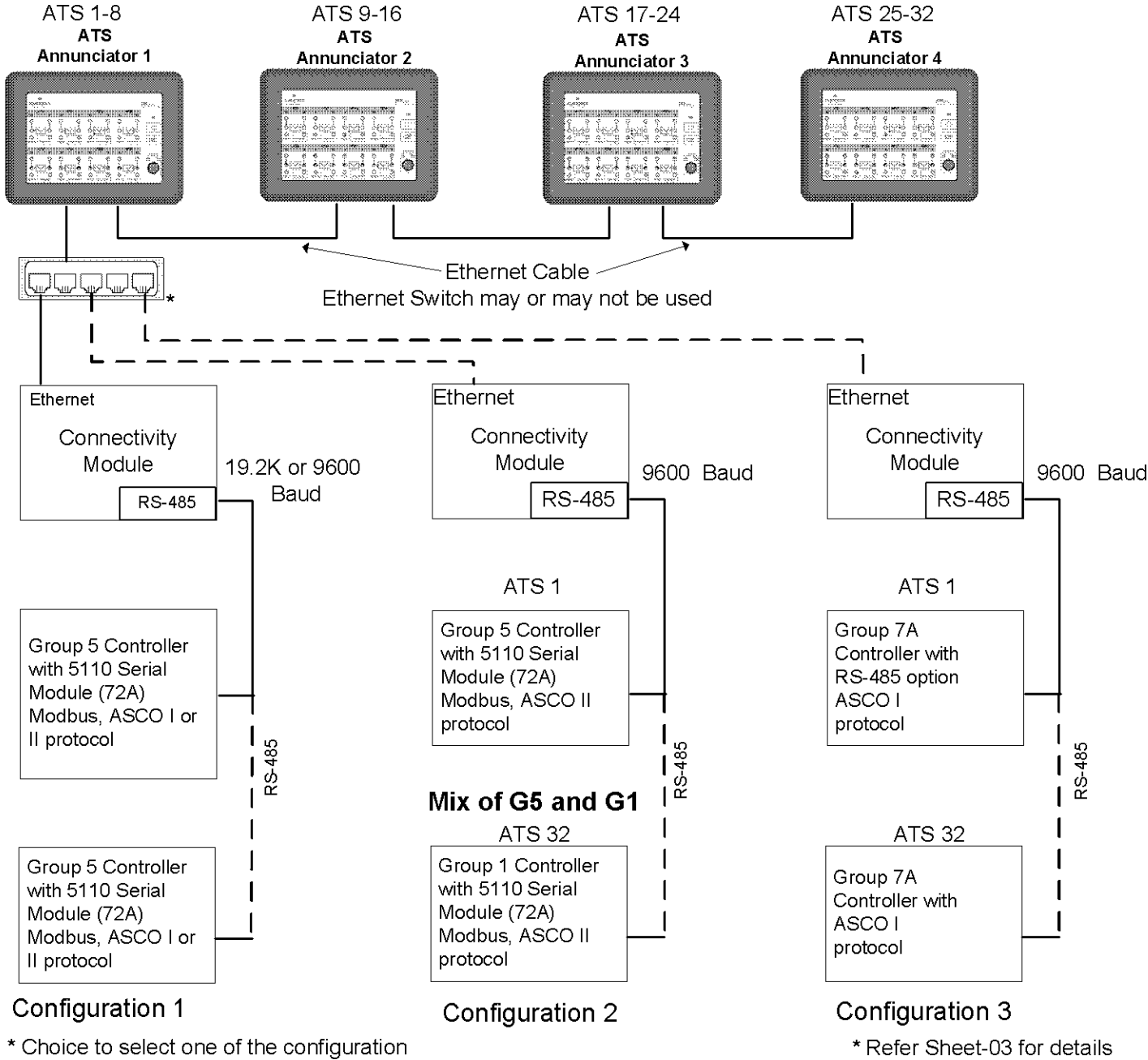
General Notes

Note	Description
1	Each Ethernet device must be configured with its own unique IP address on the network

Sheet Number	Description of Wiring Diagram
1	Overall Communication architecture
2	Architecture 1 Reference Wiring Diagram
3	Architecture 2 Reference Wiring Diagram
4	Power supply and other wiring diagram

LED Label	LED Description	LED Function
POWER	Power on indication Green	Solid ON indicates application software is running
ETH1 & ETH2	LED 1 Green	Solid Green ON indicates network operating at 100Mbps Speed, Full duplex with no collision
		Blinking Green indicates network operating at 100Mbps Speed, Full duplex with collision
	LED 1 Orange	Blinking Orange indicates network operating at half duplex with collision
	LED 1	LED1 is OFF indicates speed and Full duplex/Col signals are not active
	LED 2 Green	Green Blink when Link and Act signals present and indicates TX/RX signals activities
	LED 2 Orange	Solid Orange ON indicates Link is present but no Act signal
	LED 2	LED2 is OFF indicates Link and Act signals are not active

Architecture 2: Serial RS-485 Support via Connectivity Module



Configuration 1

* Choice to select one of the configuration

Configuration 2

Configuration 3

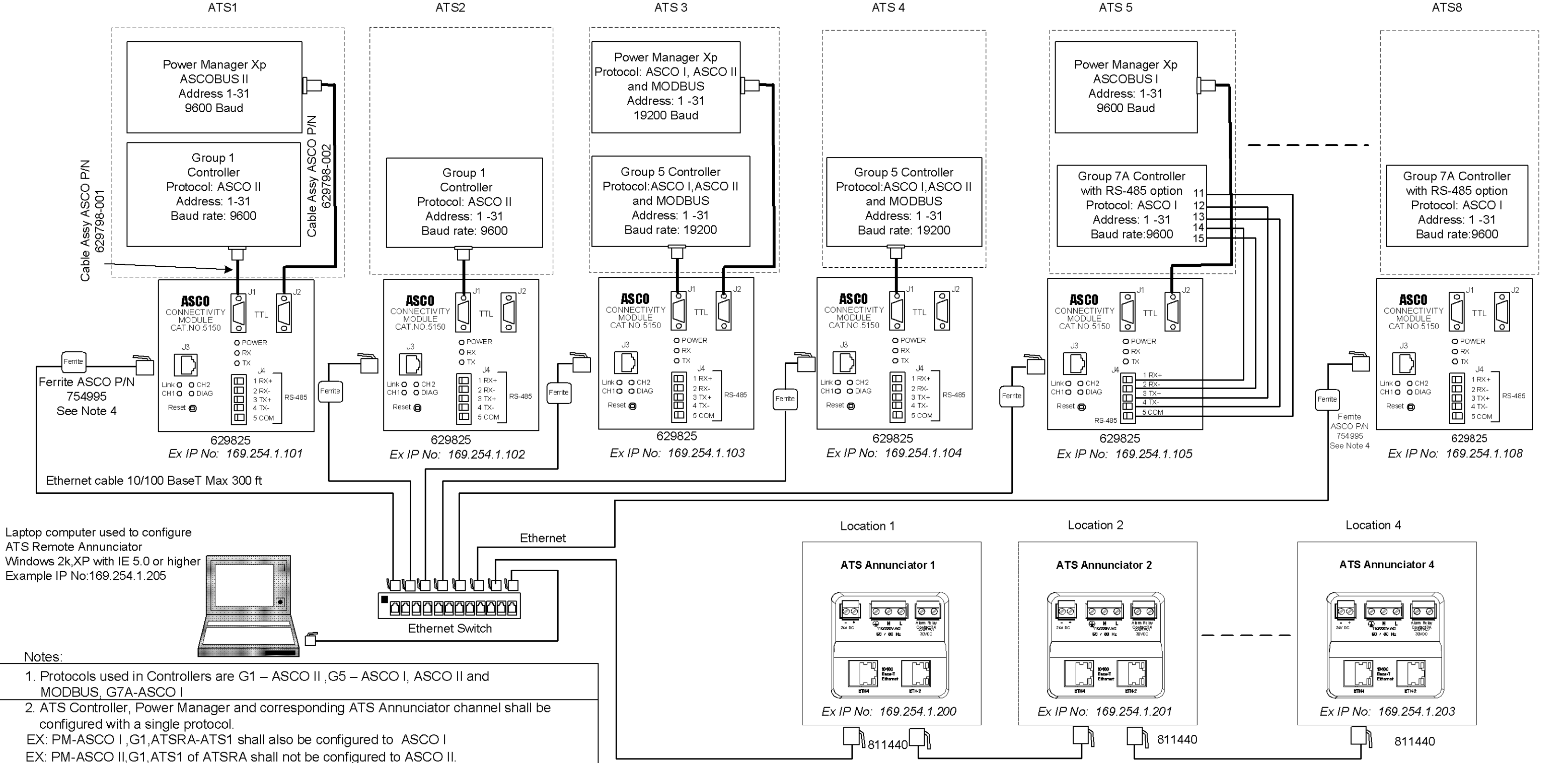
* Refer Sheet-03 for details

Used on Installation Manual 381333-315

PROJECT NAME: XD-1047 - 8CH				SUBSIDIARY DISTRIBUTION			
WIRING DIAGRAM DIAGRAM				THIRD ANGLE PROJECTION			
ATS REMOTE ANNUNCIATOR - 8CH				COMPUTER GENERATED DRAWING			
CAT. 5350				811440			
BY: JAV DATE: 02/09				ASSEM. REF. NO.			
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A 223053 SRC JEJ 05/09				CHANGE LETTER ECN NO. BY APPD DATE			
B 223240 JAV JEJ 06/09				AE AN AM AJ AL			
				CH AV AA PS AR			
				AG AP AC AS			
				SCALE None Visio FILE _01			
				SIZE DWG. NO. BS 834969			
				CHANGE LETTER C ECN NO. 223488 SHEET 1 of 4			

Architecture 1: Reference Wiring Diagram
Single ATS connected to single Connectivity Module

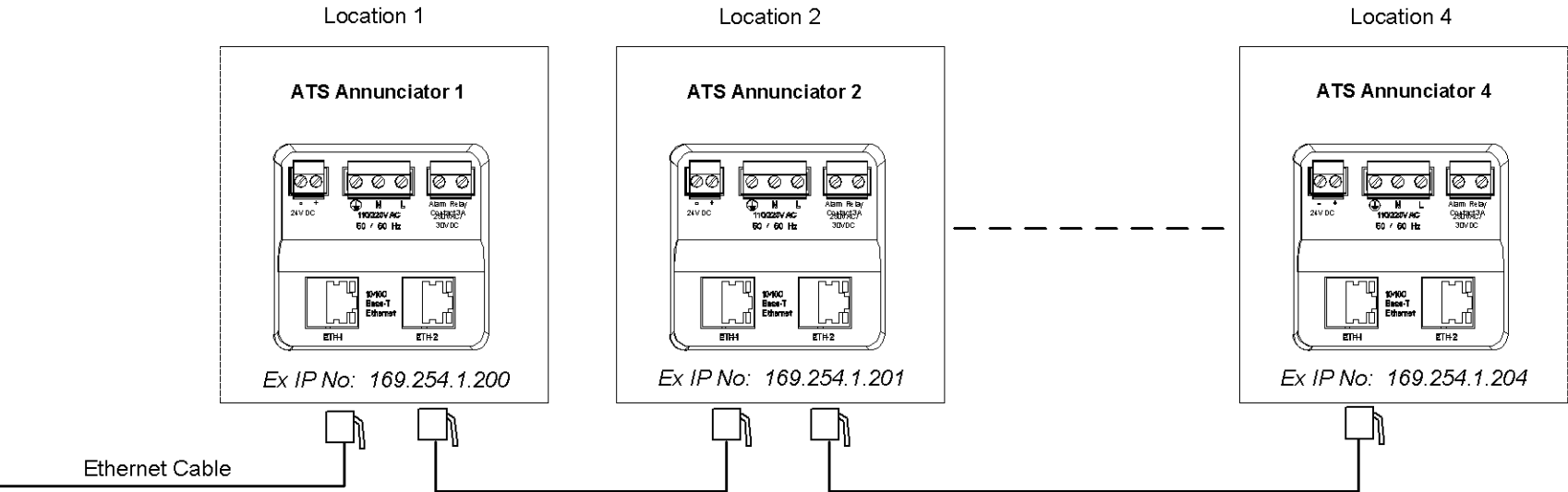
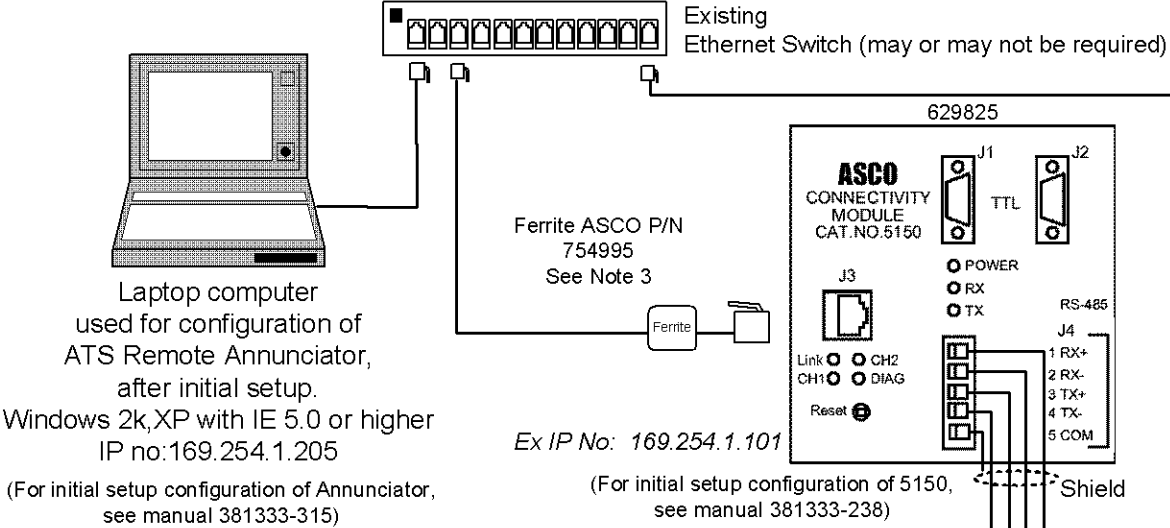
Controller & Power Manager must have unique address when running Modbus protocol



Ethernet Communication Cable							
Type	Known as	Max. Length of Segment	Max. Stations per Segment	Cable Type	Connectors	Cable Impedance/ Terminations	Belden P/N (reference)
10 BaseT	Twisted Pair	328ft. (100 meters)	1024	UTP CAT3, 4, 5	RJ-45		7882A

PROJECT NAME: XD-1047 - 8CH					SUBSIDIARY DISTRIBUTION						
WIRING DIAGRAM		INSTALLATION					AE ☐ AN ☐ AM ☐ AJ ☐ AL ☐ ☐				
ATS REMOTE ANNUNCIATOR - 8CH					THIRD ANGLE PROJECTION		CH ☐ AV ☐ AA ☐ PS ☐ AR ☐ ☐				
CAT. 5350							AG ☐ AP ☐ AC ☐ AS ☐ ☐ ☐				
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Architecture 2: Reference Wiring Diagram
Multiple ATS connected to single Connectivity Module



Controller's / Power Manager's Possible Configurations

Controller/Power Manager	Protocol			Baud Rate	
	ASCO I	ASCO II	Modbus	9600	19200
Group 1	NO	YES	NO	YES	NO
Group 5	YES	YES	YES	YES	YES
Group 7A	YES	NO	NO	YES	NO
Power Manager	YES	YES	YES	YES	YES

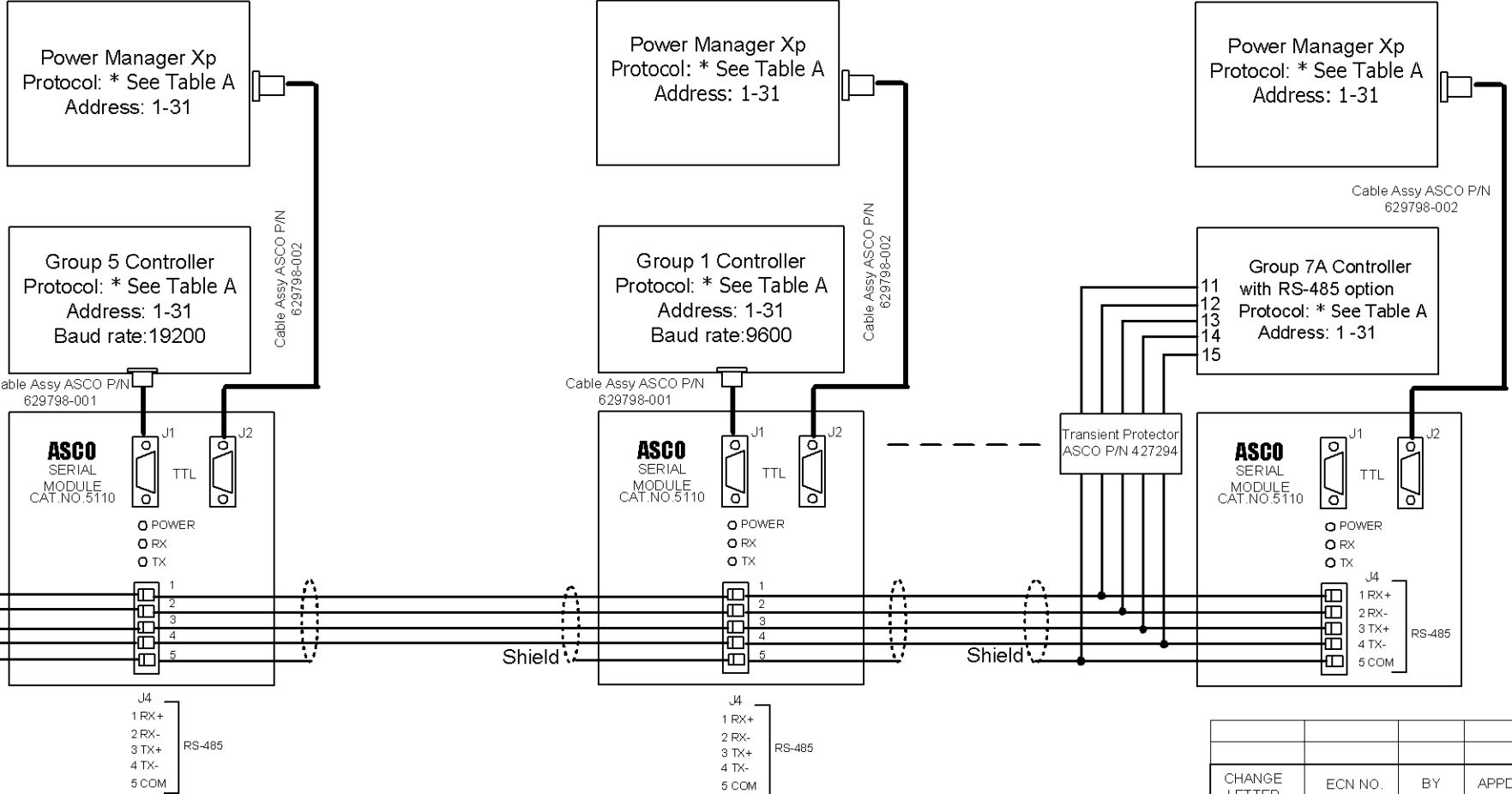
Table-A

TABLE 1
Acceptable
Communication Cable
Standard 80°C
Belden 9842
Belden 9829
Alpha 6202C
Alpha 6222C
Plenum Rated
Belden 89729
Belden 82729
Alpha 58902

Group 7A and Group 1 shall not be configured on the same serial LAN as per Table A (Protocol mismatch).

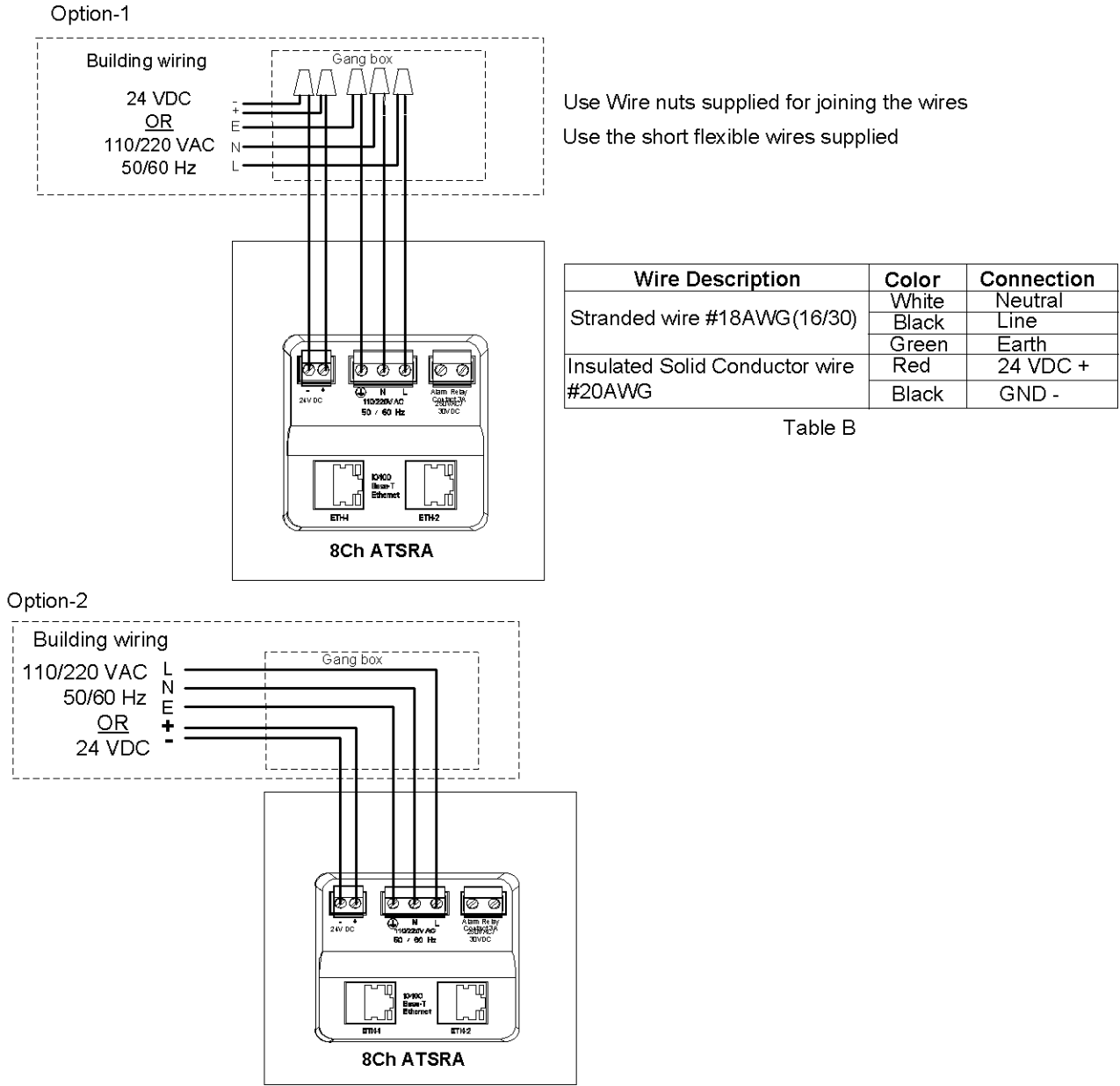
Notes

- The possible configurations that can be supported are shown in Table -A. 'Yes' indicates support and 'No' indicates not supported.
- Refer to the wiring diagram of connectivity Module for detailed point to point wiring.
- Ferrite ASCO P/N 754995 must be installed on cable within 1" of device being connected.
- Enable Termination Resistor at farthest two end devices.
- When multiple ATS's are connected to a Single Connectivity Module over Serial Configuration, all network device (ATS and Power Manager) baud rates and protocols must match.
- Each Communication Device must have a unique IP/serial address.



PROJECT NAME: XD-1047 - 8CH				SUBSIDIARY DISTRIBUTION			
WIRING DIAGRAM				INSTALLATION			
ATS REMOTE ANNUNCIATOR - 8CH				THIRD ANGLE PROJECTION			
CAT. 5350				811440			
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CHECKED: JAV				DATE: 02/09			
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MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003 FOR PLASTIC PARTS SEE MP-I-055				PROPERTY OF ASCO POWER TECHNOLOGIES, L.P. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED			
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SIZE: BS				DWG. NO.: 834969			
CHANGE LETTER: C				ECN NO.: 223488			
SHEET 3 of 4				FILE: _01			

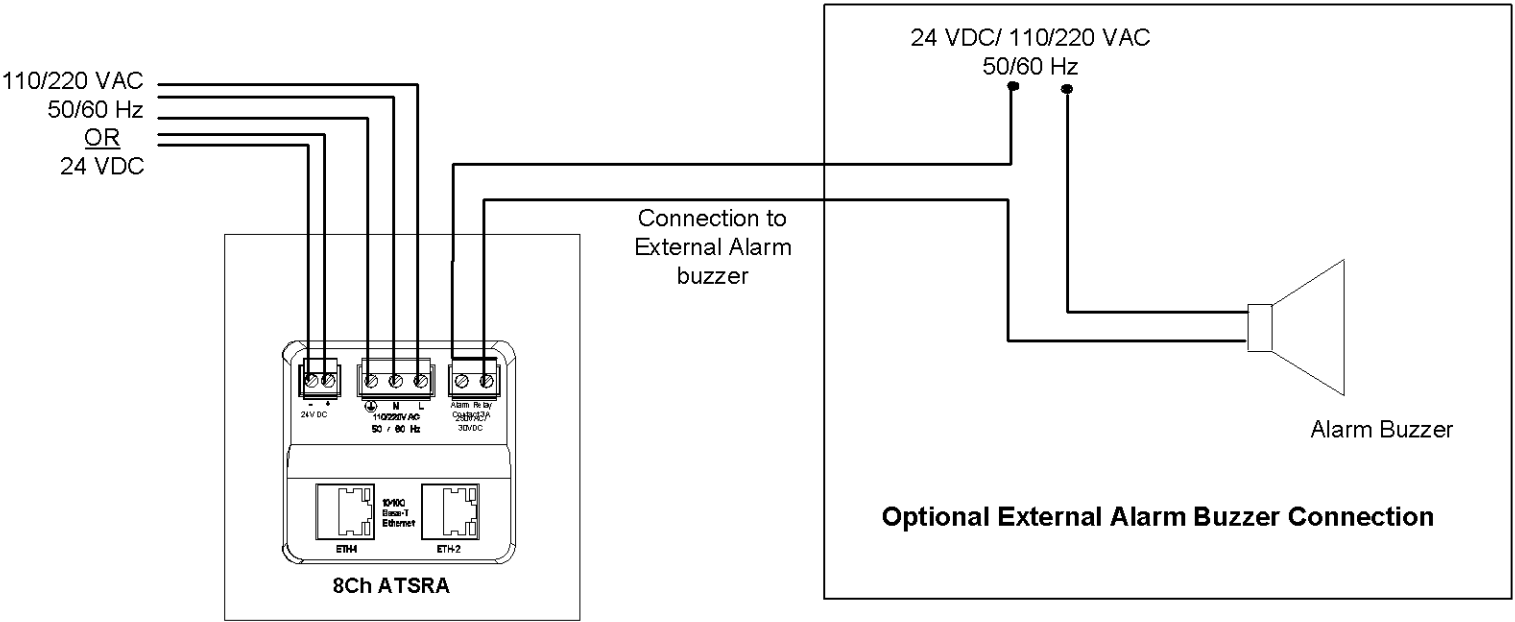
Power supply and other wiring diagram
Eight Channel Annunciator with Gang box mounting



Notes

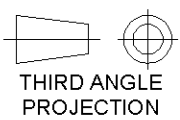
- Warning:** Before making the connections ensure the main power is disconnected from the accessible wiring.
- Option 1: Use wire nuts and short wires for connections, if the wires from the building wiring are not flexible enough to route cable to the Annunciator terminals.
- Option 2: Do not use wire nuts and short wires for connections, if the wires from the building wiring are flexible enough to route to the Annunciator terminals.
- The Terminal plugs shall be removed before connecting and shall be plugged to the Annunciator after completion of all connections.
- Power and communication cables shall be routed in the gang box to maintain a minimum of ¼”(6mm) separation as per NFPA 800.133 Exception 2.
- Install the divider plate provided to ensure the separation of power and communication cables.
- Alarm Relay shall not be wired in Gang box mounting arrangement to comply with National Electric Code.
- In panel mounting arrangement external Alarm/Buzzer can be connected to the Annunciator with suitable external power supply, considering the Alarm/Buzzer specifications and Annunciator Alarm relay contact rating.

Eight Channel Annunciator with Panel Mounting



PROJECT NAME: XD-1047 - 8CH

WIRING DIAGRAM INSTALLATION
ATS REMOTE ANNUNCIATOR - 8CH
CAT. 5350



THIRD ANGLE
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MANUFACTURING TOLERANCES TO BE IN
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FOR PLASTIC PARTS SEE MP-I-055

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CHANGE LETTER	ECN NO.	BY	APPD	DATE
SUBSIDIARY DISTRIBUTION				
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CH ☐	AV ☐	AA ☐	PS ☐	AR ☐
AG ☐	AP ☐	AC ☐	AS ☐	☐
COMPUTER GENERATED DRAWING				
SCALE	None	Visio	FILE	_01
SIZE	DWG. NO.			
BS	834969			
CHANGE LETTER	C	ECN NO.	223488	SHEET 4 of 4