ETC

Response Mk2 4-Port Gateway

Gateway Series

Type(s)

Project

Date

Notes

GENERAL INFORMATION

ETC's Response Mk2 Four-Port Gateway provides data distribution using the quality and reliability of ETC's network technology. Built for Net3 using industry-standard sACN, DMX and RDM, the Response Gateway unlocks the power of your networked system.

APPLICATIONS
- Road houses
- Touring
- University/professional theaters
- Convention halls
- Tech tables
- Stage manager panels
- System integration

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

ORDERING INFORMATION

Four-Port Gateways

MODEL	DESCRIPTION	PART NUMBER
RSN-DMX4-O	Response Mk2 4-Port Gateway - 4 Output	4268A1231
RSN-DMX4-I	Response Mk2 4-Port Gateway - 4 Input	4268A1232
RSN-DMX4-3O1I	Response Mk2 4-Port Gateway - 1 In 3 Out	4268A1233
RSN-DMX4-T	Response Mk2 4-Port Gateway - 4 Terminal	4268A1235
RSN-DMX4-R	Response Mk2 4-Port Gateway - 4 RJ45	4268A1234

Four-Port Gateway Accessories

MODEL	DESCRIPTION	PART NUMBER
N34G-FP4F[1]	Gateway Front-Panel Kit - DMX 4 Out	4260K1002
N34G-FP4M[1]	Gateway Front-Panel Kit - DMX 4 Input	4260K1006
N34G-4P2M2F[1]	Gateway Front-Panel Kit - DMX 2 In 2 Out	4260K1003
PS-INTL[2]	Gateway Universal Power Supply	PS406-F
N3GA-RM	Gateway Rack-Mount Kit	4260K1001
N3GA-HBU	Gateway Hanging-Bracket Kit with U-Bolt	4260K1005
400CC	C-Clamp	7060A2009
400SC	Safety cable	7060A1022

[1]Does not include required Rack-Mount kit.

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

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
- Flexible Output Patch allows a 512-address universe to begin at any output address
- Advanced Input Patch
- Support for per-address- or per-universe-level priority
- Maximum delay time from input to output not greater than one packet time
- Selectable DMX refresh rate with a maximum at least 40Hz
- Supports up to 256 total RDM devices

MECHANICAL
- Intuitive four-button interface
- Onboard display for identification, status and configuration
- Fabricated from 16-gauge cold-rolled steel
- Black, Fine-textured, powder-coat finish
- C-clamp and U-bolt hardware available
- Half 19" equipment rack width allows for up to eight DMX ports in 1U height
- Network, power and data activity LED indicators
  - Blue power indicator, green network activity indicator
  - Bi-color DMX activity indicator
- RJ45 for connection to lighting network configurable for front or rear positioning
- Reset button for hard reset or forced reboot

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

ELECTRICAL
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- 12–24 VDC power input for use with non-PoE systems
- Maximum seven watt current draw
- Clamp style connectors for solid and stranded cable wiring provided for terminal version

CONFIGURATION
- Local configuration options
- Remote configuration provided by Concert
  - Supports up to 512 DMX addresses per port
  - Supports up to 63,999 Streaming ACN universes
- DMX data input or output configurable by user
- 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 labeling

REGULATORY AND COMPLIANCE
- cETLus Listed
- CE compliant
- RoHS compliant
- WEEE

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.
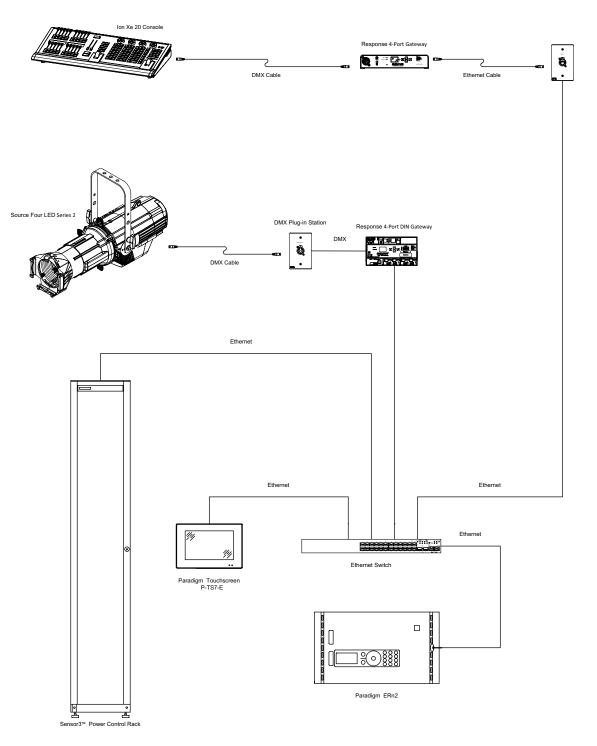
ACN
Architecture for Control Networks (ANSI E1.17) is a standard for high-speed bidirectional communication over TCP/IP on Ethernet network infrastructure. ACN is an open suite of protocols used between network devices for the purposes of greater and more adaptive control.

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

Ion Xe 20 Console

Response 4-Port Gateway

DMX Cable

Ethernet Cable

Source Four LED Series 2

DMX Plug-in Station

Response 4-Port DIN Gateway

DMX

DMX Cable

Ethernet

Ethernet

Ethernet

Ethernet

Ethernet Switch

Paradigm Touchscreen
P-TS7-E

Paradigm ERn2

Sensor3™ Power Control Rack

PHYSICAL

Response Four-Port Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
Gateway	1.65	42	8.50	216	7.50	191

Net3 Four-Port Gateway Accessories

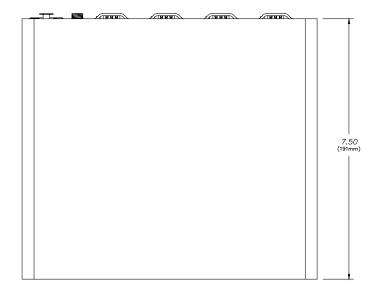| MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
N34G-FP4F[1]	1.1	0.5	2.0	0.9
N34G-FP4M[1]	1.1	0.5	2.0	0.9
N34G-FP2M2F[1]	1.1	0.5	2.0	0.9
N3GA-PS	0.5	0.2	1.0	0.5
N3GA-RM	1.5	0.7	2.0	0.9
N3GA-HBU	0.8	0.4	1.0	0.5

[1]Does not include required Rack-Mount Kit

Response Four-Port Gateways Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
RSN-DMX4-O	1.75	0.79	3.5	1.59
RSN-DMX4-I	1.75	0.79	3.5	1.59
RSN-DMX4-3O1I	1.75	0.79	3.5	1.59
RSN-DMX4-T	1.75	0.79	3.5	1.59
RSN-DMX4-R	1.75	0.79	3.5	1.59

Response Four-Port