ETC

Response Mk2 8-Port Gateway

Gateway Series

Type(s)	
Project	
Date	
Notes	

GENERAL INFORMATION

ETC's Response Mk2 Eight-Port Gateway provides data distribution using the quality and reliability of ETC's network technology. Built 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
- 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 on first two ports
- Configurable DMX/RDM Output on remaining six ports
- 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
- Near Field Communication (NFC) allows configuration even while powered off
- Configurable using Concert software and/or Set Light mobile application

ORDERING INFORMATION

Eight-Port Gateways

MODEL	DESCRIPTION	PART NUMBER
RSN-DMX8-O	Response Mk2 8-Port Gateway - 8 Output	4268A1301
RSN-DMX8-R	Response Mk2 8-Port Gateway - 8 RJ45 Out	4268A1305
RSN-DMX8-T	Response Mk2 8-Port Gateway - 8 Terminal	4268A1308

Eight-Port Gateway Accessories

MODEL	DESCRIPTION	PART NUMBER
N3GA-RM	Gateway Rack-mount Kit[1]	4260K1001
N3GA-HBU	Gateway Hanging-Bracket Kit with U-bolt[1]	4260K1005
RSN-8P-HBK	Eight Output Gateway Hanging Bracket Kit	4268K1028
N34G-FP4F	Gateway Front-Panel Kit - DMX 4 Out[3]	4260K1002
PS-INTL[2]	Gateway Universal Power Supply	PS406-F
400CC	C-clamp	7060A2009
400SC	Safety cable	7060A1022

[1]Compatible with Terminal version only.

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

[3]Does not include required Rack-mount kit, compatible with Output version only

WHAT IS IN THE BOX

- Eight-Port Gateway
- Setup Guide
- Rack ears (Output and RJ45 Out versions only)

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 on first two ports
- 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 40 Hz
- 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 accessory kits available
- Full (Output & RJ45 Out) or half (Terminal) 19 in equipment rack width allows for up to eight or sixteen DMX ports in 1U height, respectively
  - Rack ears included on Output and RJ45 Out versions
  - Gateway Rack-mount Kit available for Terminal version
    - One N3GA-RM required for every two Terminal Gateways
- 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°C to 40°C (32°F to 104°F)
- Operating humidity: 5%–95% non-condensing
- Storage temperature: -40°C to 70°C (-40°F to 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 7 W current draw
- Screw-terminal pluggable 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.

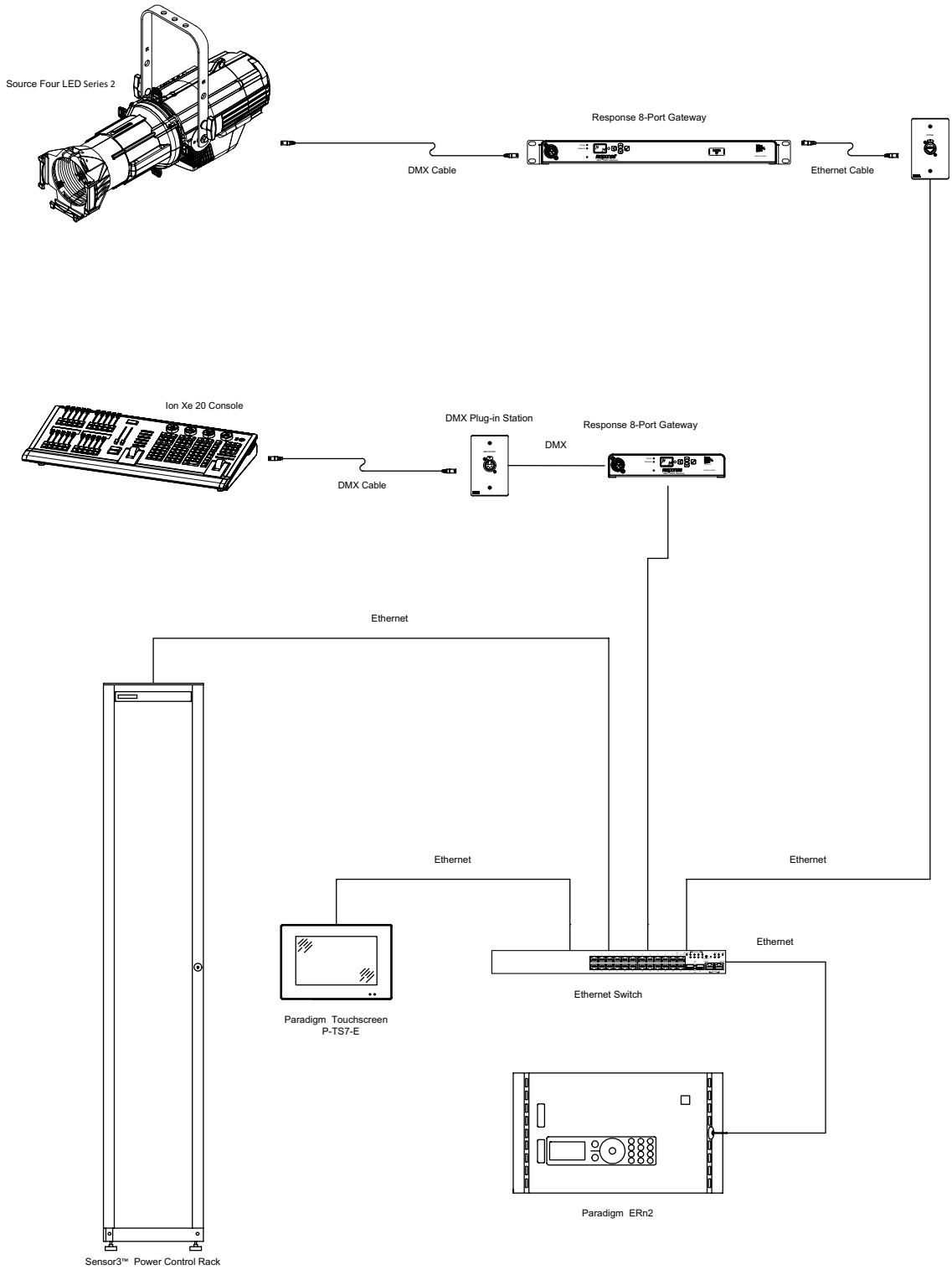
ACN

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



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PHYSICAL

Response Eight-Port Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
RSN-DMX8-O	1.65	42	17.00	432	7.50	191
RSN-DMX8-R	1.65	42	17.00	432	7.50	191
RSN-DMX8-T	1.65	42	8.50	216	7.50	191

Response Eight-Port Gateway Weights

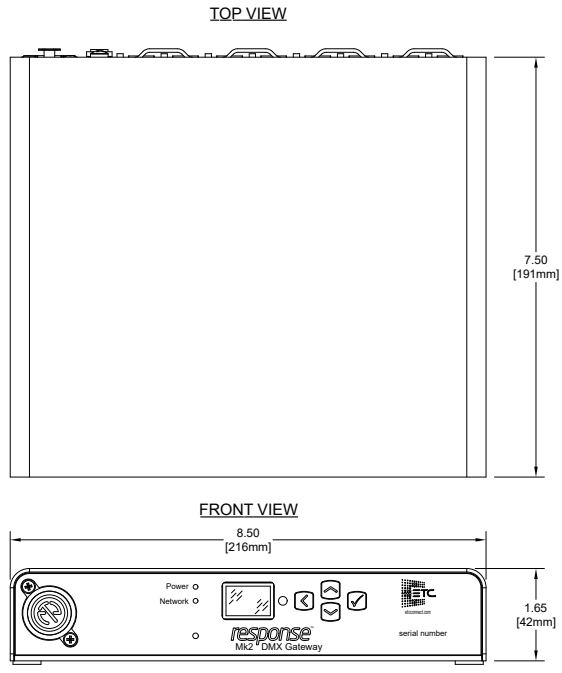
MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
RSN-DMX8-O	3.35	1.52	4.55	2.06
RSN-DMX8-R	3.20	1.45	4.40	1.99
RSN-DMX8-T	1.75	0.79	3.5	1.59

Response Eight-Port Gateway Accessories

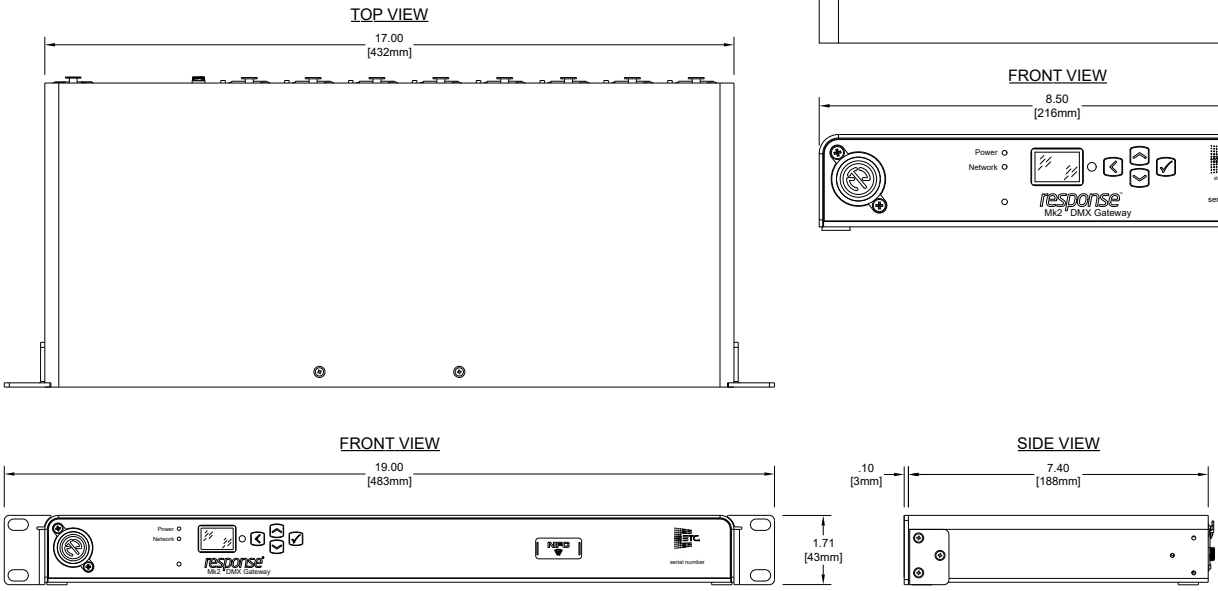
MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
N3GA-RM	1.5	0.7	2.0	0.9
N3GA-HBU	0.8	0.4	1.0	0.5
RSN-8P-HBK	1.8	0.82	2.0	0.91
N34G-FP4F[1]	1.1	0.5	2.0	0.9
PS-INTL	0.5	0.2	1.0	0.5

[1]Does not include required Rack-Mount Kit

RESPONSE EIGHT-PORT TERMINAL



RESPONSE EIGHT-PORT OUTPUT AND RJ45 OUT



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