

## GENERAL INFORMATION

The Net3 Four-Port Gateway provides network data distribution of RDM and data level information. Built on the reliability and quality of ETC's Network development, Net3 gateways are built for the industry standard ACN protocol. The Gateway is an Ethernet device that uses bidirectional communication with other network devices to send and receive DMX512 and RDM data as well as ACN/ sACN.

### APPLICATIONS

- Road House
- Touring
- University/Professional Theatre
- Convention Hall
- Tech Table
- Stage Manager Panels
- System Integration

### FEATURES

- Distributed DMX and RDM over Ethernet
- Supports Net3 protocol powered by ACN
- DMX/RDM Output/Input
- Distributes DMX data to any input/output device
- Modular DMX/RDM port design for simple configuration and service of each port
- DMX connection using 5-pin Male or Female XLR, terminal strip or RJ45 connectors
- LCD screen for labeling, status and configuration information
- Power and Network status indicators
- Power over Ethernet (PoE) or external DC power supply
- Configurable using Network Software utility (GCE/NCE) or directly from ACN

## ORDERING INFORMATION

### Net3 Four Port Gateway Bundles

MODEL	DESCRIPTION
N34G-4F	Net3 DMX/RDM Gateway - 4 Output
N34G-4M	Net3 DMX/RDM Gateway - 4 Input
N34G-4T	Net3 DMX/RDM Gateway - 4 Terminal Strip
N34G-2M2F	Net3 DMX/RDM Gateway - 2 Output-2 Input
N34G-2F	Net3 DMX/RDM Gateway - 2 Output

Note: Bundles come complete with the Gateway, Rack-mount Kit and Universal Power Supply

### Net3 Four Port Gateway Components

MODEL	DESCRIPTION
N34G-4B	Net3 Gateway - includes 4 blank plates
N34G-MM	Input Module - Male 5-pin XLR
N34G-FM	Output Module - Female 5-pin XLR
N34G-TM	Terminal Strip Module - Input or Output
N34G-RJM	RJ45 Modules - Input or Output
N34G-BM	Blank Module - For any unused port

### Net3 Four Port Gateway Accessories

MODEL	DESCRIPTION
N34G-FP4F	Net3 Gateway Front Panel Kit - DMX 4 Out <sup>1</sup>
N34G-4P2M2F	Net3 Gateway Front Panel Kit - DMX 2 In 2 Out <sup>1</sup>
N3GA-PS	Net3 Gateway Universal Power Supply <sup>2</sup>
N3GA-RM	Net3 Gateway Rack Mount Kit
N3GA-HBU	Net3 Gateway Hanging Bracket Kit with U-bolt

<sup>1</sup>Does not include required Rack Mount kit

<sup>2</sup>N3GA-PS includes plugs for United States/Japan, Europe, Great Britain, and Australia/China. Used with Net3 Four-Port, Two-Port, Show Control and I/O Gateways.



## SPECIFICATIONS

## GENERAL

- Distributes DMX over Ethernet with any compatible input or output device
- RoHS Compliant (lead-free)
- CE compliant and ETL LISTED

## 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
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- 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

- Fabricated from 16-gauge cold-rolled steel
- Finished in black fine-texture, scratch-resistant, powder coat
- Menu Button for backlight/paging control
- Backlit LCD display for identification and status reporting:
  - Gateway identification
  - Network configuration
  - DMX port configuration
  - DMX port status
  - RDM Configuration
- Front and rear Power and data indicators
  - Blue power indicators
  - Green network activity indicator
- Front Panel RJ45 for connection to lighting network
- Reset button for hard reset or forced reboot
- Optional pipe-mount and rack-mount kits available
- 1/2 19" equipment rack width allows for up to 8 DMX ports in 1U height

## PROCESSOR

- Maximum delay time from input to output not greater than one packet time
- Selectable DMX refresh rate with a maximum not less than 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)

## POWER

- Supports IEEE802.3af Power over Ethernet or optional 8-28Vdc external power supply
- Maximum power consumption less than 5 watts

## MODULAR DMX PORTS

- Supports Up to 4 DMX ports independantly configurable as inputs or outputs
- Module options include:
  - XLR 5-Pin Male DMX input connector
  - XLR 5-Pin Female DMX output connector
  - RJ45 DMX connector
  - Terminal strip connector
- Fully optically-isolated input from the gateway electronics
- Withstands fault voltages of up to 250VAC
- Integrated DMX/RDM termination

## SPECIFICATIONS

## CONFIGURATION

- Net3 Mode configuration provided by Gateway Configuration Editor (GCE) or directly from ACN
  - Supports up to 512 DMX addresses per port
  - Supports up to 63,999 Streaming ACN universes
- Up to 2048 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 labeling

## ADDITIONAL INFORMATION

## DMX512

Often shortened to DMX (Digital Multiplex), this communications 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.

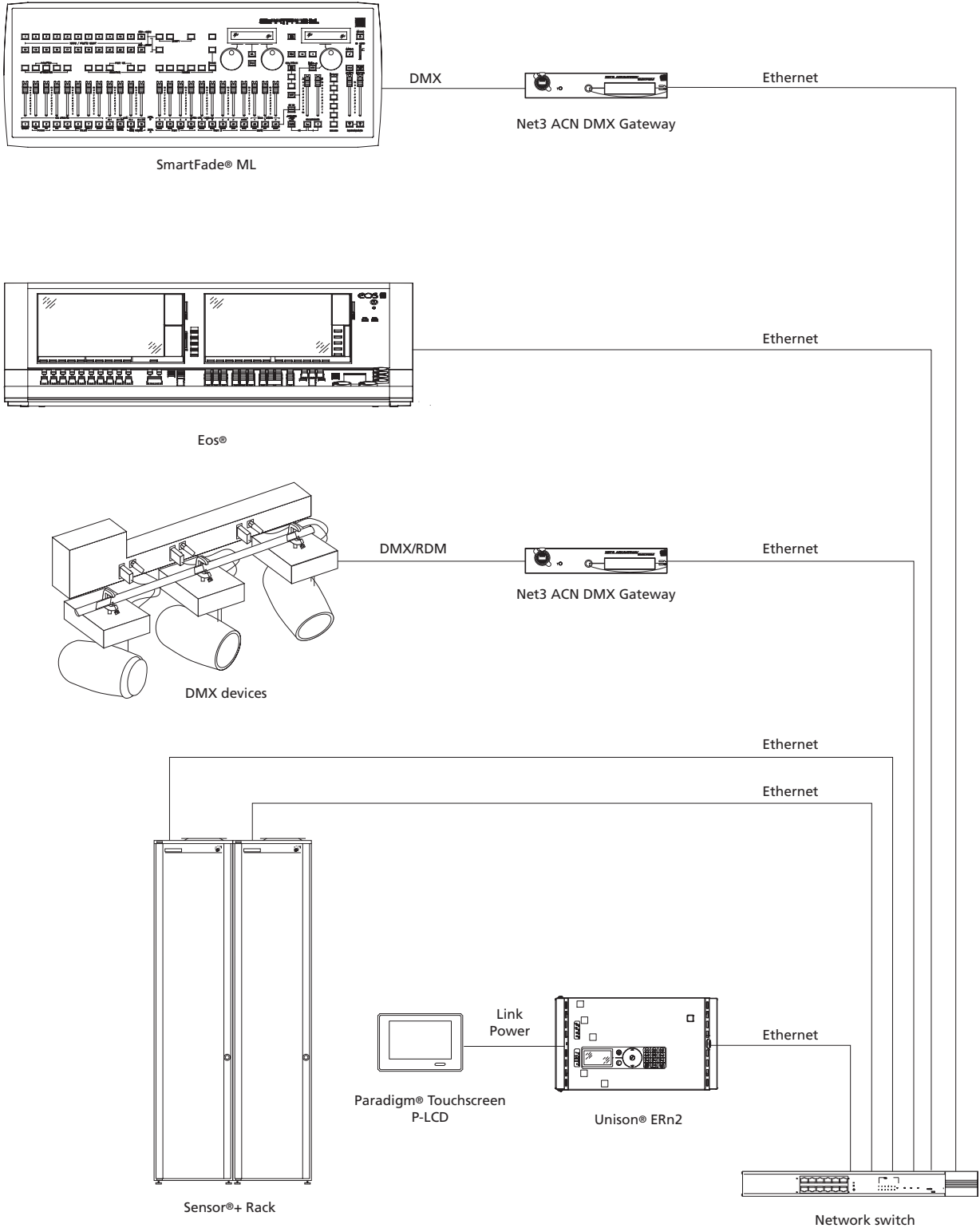
## ACN

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



PHYSICAL

Net3 Four-Port Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
Gateway Unit	1.71	44	8.5	216	8.2	208

Net3 Four-Port Gateway Bundles

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
N34G-4F	6	2.7	8	3.6
N34G-4T	6	2.7	8	3.6
N34G-2M2F	6	2.7	8	3.6
N34G-2F	5.5	2.5	8	3.6

Bundles come complete with the Gateway, Modules, Rack-mount kit and Universal Power Supply.

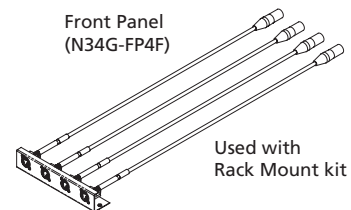
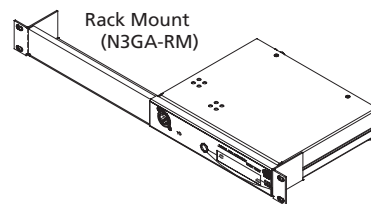
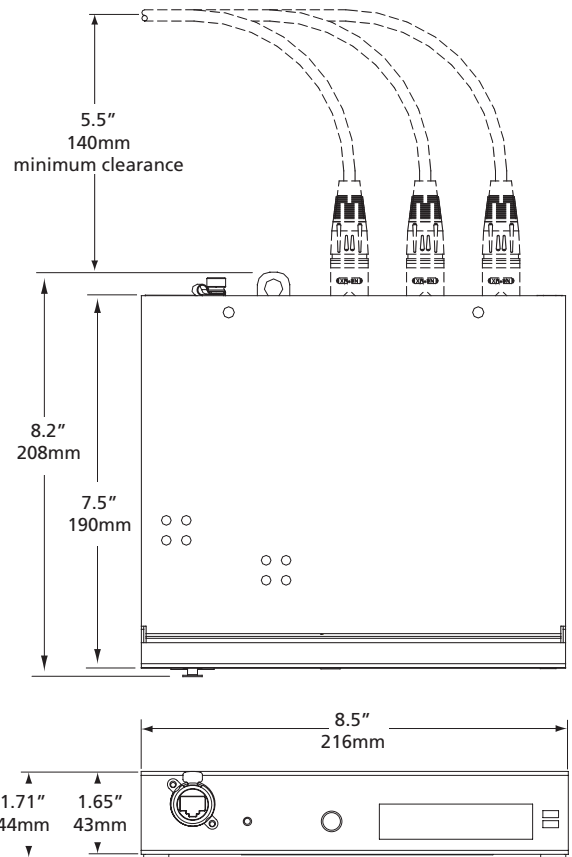
Net3 Four-Port Gateway Components

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
N34G-4B	3	1.4	7	3.2
N34G-MM	0.3	0.1	1	0.5
N34G-FM	0.3	0.1	1	0.5
N34G-TM	0.4	0.2	1	0.5
N34G-RJM	0.4	0.2	1	0.5

Net3 Four Port Gateway Accessories

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
N34G-FP4F1 <sup>1</sup>	1.1	0.5	2	0.9
N34G-FP2M2F <sup>1</sup>	1.1	0.5	2	0.9
N3GA-PS	0.5	0.2	1	0.5
N3GA-RM	1.5	0.7	2	0.9
N3GA-HBU	0.8	0.4	1	0.5

<sup>1</sup>Does not include required Rack-mount kit



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