The Net3 Two Port Gateway is a network data distribution device designed to take advantage of the quality and reliability of ETC's Network development, built for both the proven ETCNet2™ protocols and the new industry standard ACN. The Gateway is an Ethernet native network device that uses bidirectional communication with other network devices to send/receive DMX512 digital signals (as well as RDM depending on software mode).

**APPLICATIONS**
- Road House
- Touring
- University/Professional Theatre
- Convention Hall
- Tech Tables
- Stage Managers Panels

**FEATURES**
- Two ports of distributed DMX over Ethernet
- Supports Net3 protocol powered by ACN
- Supports ETCNet2
- Distributes DMX data to any input/output device such as dimmers, scrollers, moving lights and DMX consoles
- DMX/RDM Output/Input (RDM with Net3 Release 2 only)
- LCD screen for labeling, status and configuration information
- LED power and network indicators
- Supports Power over Ethernet (PoE) as well as an external DC power supply
- Versatile compact size
- Configurable via network software utility or directly through ACN

**ORDERING INFORMATION**

### Net3 Two-Port Gateways

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>N32G-2F</td>
<td>Net3 Two Port DMX Gateway - 2 female outputs</td>
</tr>
<tr>
<td>N3T2G-2F</td>
<td>Net3 Two Port DMX Touring Gateway - 2 female outputs</td>
</tr>
<tr>
<td>N32G-2M</td>
<td>Net3 Two Port DMX Gateway - 2 male inputs</td>
</tr>
<tr>
<td>N3T2G-2M</td>
<td>Net3 Two Port DMX Touring Gateway - 2 male inputs</td>
</tr>
</tbody>
</table>

### Net3 Two-Port Gateway Accessories

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>N32G-BB</td>
<td>Surface mount two-gang 3.5” deep back box</td>
</tr>
<tr>
<td>N32G-2T</td>
<td>Terminal connector kit - 2 terminal style connectors</td>
</tr>
<tr>
<td>N32G-CP</td>
<td>Cover Plate</td>
</tr>
<tr>
<td>UBOLT</td>
<td>U-Bolt Hardware kit</td>
</tr>
<tr>
<td>400CC</td>
<td>C-Clamp</td>
</tr>
<tr>
<td>PS-INTL</td>
<td>International Power Supply*</td>
</tr>
</tbody>
</table>

* PS-INTL includes plugs for American/Japanese, European 2-pin, British 3-pin, and Australian/Chinese 2-pin. Used with Net3 Four Port, Two Port, Show Control and I/O Gateways
ETC

Net3™ Two-Port Gateway

Net3 Gateway Series

SPECIFICATIONS

GENERAL
- Distributes DMX over Ethernet to any input/output device such as dimmers, consoles, scrollers, moving lights...
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- CE compliant and ETL Listed
- RoHS Compliant (lead-free)
- ETCnet2 and Net3/ACN protocols
- Meets RDM BSr e1.20 Standard
- USItt DMX512 and ANSI e1.11 DMX512-A compliant

MECHANICAL
- Fabricated of 16-gauge steel
- Finished in fine-texture, scratch-resistant, black powder coat
- Backlit LCD display for identification (soft-labeling) and status reporting:
  - Gateway identification – Name, IP address, software version
  - Network configuration
  - DMX port configuration
  - DMX port status
- Menu Button for backlight/paging control
- Power (blue) and Network present/activity (green) LED indicators on front
- Reset button for hard reset/forced reboot
- For recessed mount, use an industry standard two-gang back box (Raco 691 with min. 1/2” mud ring extender or Raco 696 deep box)
- For surface mount, use an ETC standard two-gang back box (4105A2002)
- Hanging bracket and connectorized backbox included with Touring version (C-clamp and U-bolt hardware available)

PROCESSOR
- Maximum delay time from input to output not greater than one packet time (minimum 22 mSec.)
- Four selectable DMX output update rates with maximum setting not less than 40Hz

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

POWER
- Power Supply options include:
  - 8 to 28Vdc external power supply
  - 48V IEEE 802.3af Power over Ethernet
- Maximum power consumption 5 watts

DMX PORTS
- 5-pin XLR connectors - female for output port, male for input port
- Software-configurable for input or output
- Fully opto-isolated input from the gateway electronics
- Capable of withstanding fault voltages of up to 250VAC
- Switch for DMX/RDM termination

CONFIGURATION
- ETCNet2 Mode configuration using Network Configuration Editor (NCE) v4.1 or later
- Net3 Mode configuration provided by Gateway Configuration Editor (GCE)
- 1024 DMX In or DMX Out channels
- Control up to 512 DMX addresses per port, within the confines of up to 64 DMX “universes” (32,767 DMX addresses) when using EDMX and up to 64,279 “universes” (32,910,848 DMX addresses) when using Streaming ACN.
- User configurable labeling
- Specific DMX data input or output configurable by user
- Duplicate outputs of DMX lines (DMX splitter) and discrete outputs fully supported
- Any number of DMX universes may be configured with any length up to 512 addresses as long as the total does not exceed 32,767.
- Multiple sources may be combined and a priority may be assigned to each source.
- Individual port start address and offset for ease of use

ADDITIONAL INFORMATION

DMX512
Often shortened to DMX (Digital MultipleX), is a communications protocol used mainly to control stage lighting. DMX is a nearly continuous stream of level information repeating levels in order from 1 to 512. It is a form of RS-485 digital serial communication.

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

sACN
‘Streaming ACN,’ details DMX-style control over TCP/IP networks. It provides a fast and efficient mechanism to transport the well-understood DMX protocol over Ethernet in an open, industry-standard way.

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

NET3
ETC’s implementation of a superset of the standard ACN Protocol Suite including additional proprietary communication protocols for legacy support or specialized applications.
ETC

Net3™ Two-Port Gateway

Net3 Gateway Series

**Typical System Riser**

Express 125

Congo

DMX/DMX devices

Sensor+ Rack

Unison CMEi

Network switch

DMX

Ethernet

Link

Power

Ethernet

Ethernet

Ethernet

Ethernet

Ethernet

Ethernet
Net3™ Two-Port Gateway

Net3 Gateway Series

**Physical**

### Net3 Two-Port Gateway Dimensions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>N32G-2F / 2M</td>
<td>4.85</td>
<td>123</td>
<td>4.88</td>
</tr>
<tr>
<td>N3T2G-2F / 2M</td>
<td>6.47</td>
<td>165</td>
<td>4.88</td>
</tr>
</tbody>
</table>

### Net3 Two-Port Gateway Weights

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
<td>N32G-2F / 2M</td>
<td>2.0</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>2.0</td>
</tr>
<tr>
<td>N3T2G-2F / 2M</td>
<td>3.9</td>
<td>1.8</td>
</tr>
<tr>
<td></td>
<td>4.8</td>
<td>2.2</td>
</tr>
</tbody>
</table>

### Touring Bracket (Top View)

- **4.88”**
  - 124mm

- **3.50”**
  - 89mm

- **1.91”**
  - 48mm

- **3.50”**
  - 89mm

- **2.89”**
  - 73mm

- **1.70”**
  - 43mm

- **3.54”**
  - 90mm

- **.51”**
  - 13mm

- **.41”**
  - (4 Holes)

- **.53”**
  - DIA.

**U”-Bolt assembly for 1-1/2” schedule 40 pipe**

**“C”-clamp assembly for 1-1/2” schedule 40 pipe**

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