ETC® Setup Guide
DMX/RDM One Port Gateway

Overview

The DMX/RDM One Port Gateway is a network data distribution device designed for simple installations with support for Net3 protocols including sACN as well as DMX and Remote Device Management (RDM). The instructions outlined in this document apply to both Input and Output versions of the One-Port gateway.

Three variations of the One-Port DMX Gateway are available; wall mounted (fitting to a US one gang backbox), DIN-rail mounted, or touring. The One Port Gateway is powered by 802.3af Power over Ethernet (PoE) or 12-24VDC power.

Note: Network wiring should be installed and terminated by a qualified network installer and follow standard Ethernet wiring practice.
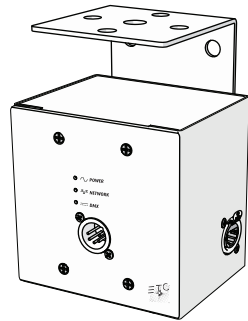
Note: Wall mount and DIN rail version can accept DC power; the DC power connections are polarity insensitive, i.e. + and - can be landed on either connection.

Configuration for NET3 DMX/RDM gateways is done using NET3 Concert Software. The latest version is available from www.etcconnect.com and includes an in-depth help system.
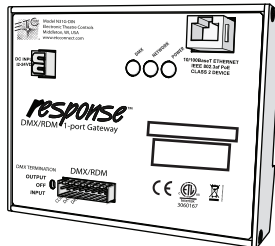
wall mount

touring

DIN-rail mount

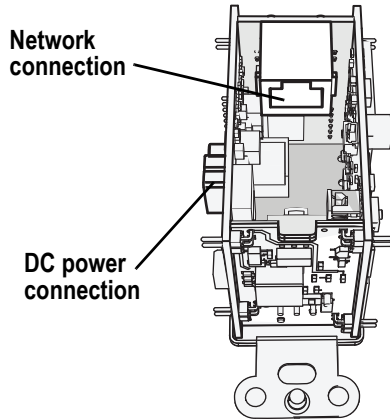# ETC Setup Guide
One Port Gateway

Installation

Portable Setup

The portable or touring One Port Gateway is designed for simple setup and can be pipe mounted using the supplied mounting bracket.

Step 1: Connect a Cat5 Cable (not provided) to the RJ45 connector on the side of the unit.

Wall Mount Setup

Both surface and flush mount installations are acceptable. For surface mounting, ETC recommends the use of an ETC single gang surface mount backbox (part# 7081A2004-1). For flush mounting, ETC recommends the use of RACO #691 backbox or equivalent (provided by others). All wall-mount gateways include a standard faceplate but are compatible with any Decorator style faceplate.

Network connection

DC power connection

Install the gateway into a backbox

Step 1: Ensure the backbox is clean and free of any obstructions.

Step 2: Terminate the incoming Cat5 wiring using the supplied Cat5 termination kit.

Step 3: Connect Power to the gateway
- If using PoE for power, plug the supplied RJ45 patch cable (12"/ 300mm) into the female RJ45 that you have previously installed into the backbox and the connector on the One Port Gateway.
- If using DC power, connect the incoming 12-24VDC power leads to the DC power terminals on the side of the gateway.
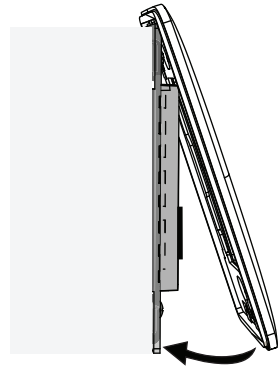

Note: *All 1-port Gateways require proper grounding. When installing the gateway in a backbox that is not grounded, use the included ground wire to connect the gateway to earth ground.*

Step 4: Use the included mounting screws to attach the gateway to the backbox.

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Install the faceplate

The faceplate assembly includes magnets that secure it to the gateway.

Step 1: Attach the faceplate alignment bracket to the gateway using the provided screws.

Step 2: Align the top of the faceplate to the gateway with the bottom edge angled out approximately 20°.

Step 3: Hook the top of the faceplate to the tabs located on the gateway electronics assembly. The faceplate should stay in place if wiggled side to side

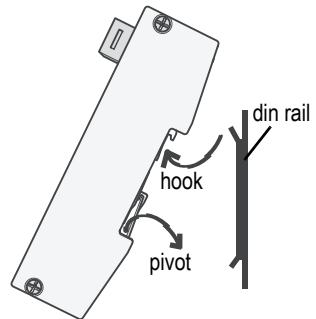Step 4: Pivot the faceplate downward until the magnets engage.

If the magnets do not fully engage, wiggle the bottom of the faceplate until all magnets are properly seated and the faceplate is secure.

DIN-rail Setup

The DIN-rail mounted one port gateway kit consists of the gateway, a Cat5 termination kit, and a DMX termination kit. Additional information on these termination kits can be downloaded from ETC's website, www.etcconnect.com.

To install the gateway:

Step 1: Ensure the section of DIN-rail to be used is mounted securely.

Step 2: Hook the top of the gateway over the top of the DIN-rail as shown.

Step 3: Pivot the gateway downward until it is seated securely on the DIN-rail.

Step 4: Terminate the bare end of the Cat5 wire using the provided termination kit and plug it into the connector on the front of the gateway.

Step 5: Terminate the DMX wire using the provided termination kit and plug it into the DMX connector on the front of the gateway.
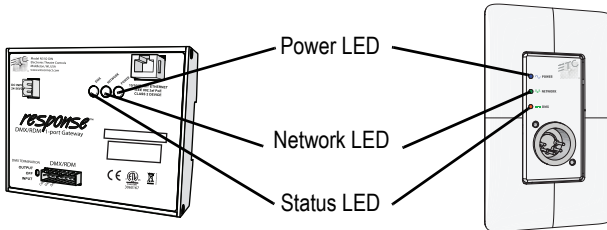
To remove the gateway:

Step 1: Push the gateway straight up to depress the DIN-rail clip.

Step 2: Pivot the top edge of the gateway off of the DIN-rail.

Step 3: The gateway is now loose. Slide the gateway down and off of the DIN-rail.

Status and Feedback LEDs

Once properly connected to the network, the LEDs will provide the following feedback.

Power LED
- A constant blue LED indicates power to the gateway

Network LED
- A constant green LED indicates a valid network connection is present.

Status LED
- The status LED may show as red, green or orange depending on the status of the gateway. The following chart details the possible LED status messages

Solid Orange	the port is in Download Mode
Blinking Red	sACN cannot be generated because valid DMX is not being received
Solid Red	valid DMX is being received
Blinking Green	DMX output cannot be generated because valid sACN is not being received.
Solid Green	valid sACN is being received
LED off	the port is off