

Cellular Gateway and PoE Injector

Data Sheet

Description

The (optional) Cellular Gateway is sold as a kit (part number MX16CELL) and provides an internet connection for the MX16US panel, allowing 2-way VoIP calls when a wired Local IT network is not available.

The MX16CELL kit includes a Cellular Gateway (LTE router) an antenna, antenna cable, a PoE Injector (PoE), and an ABS enclosure with hardware.

The Cellular Gateway is to be installed in the ABS enclosure; the ABS enclosure must be installed indoors in the same building as the MX16US. The Cellular Gateway antenna can be mounted to the enclosure as described in this manual; alternately, the antenna can be mounted to a suitable nearby surface, however the antenna must be indoors and in a location that receives a reliable cellular network signal.

The PoE Injector is to be installed inside the MX16US panel, adjacent to the Gateway Dialer on a mounting plate.

The Cellular Gateway is intended to be installed and operated in the VoCALL 16US system without the need for programming or additional device management configuration.

The Cellular Gateway requires a data plan activated through a compatible cellular service provider. The end customer is responsible for establishing and maintaining an account and expenses associated with the cellular service provider. A data plan allowance of 5 GB/month is recommended. Typical data usage between the Dialer and the VoIP service provider is approximately 100 MB/day.

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Note: The Sierra Wireless AirLink LX40 is a third party manufactured device; refer to the manufacturer's Website, www.sierrawireless.com/router-solutions/lx40/ for instructions and a list of compatible providers.

Note: Refer to the *AirLink LX40 Hardware User's Guide* to resolve any technical concerns when installing and operating the unit.

Note: Refer to the *AirLink LX40 Hardware User's Guide* for a list of provider certifications, protocols, LED attributes and other specifications and descriptions.

Note: The Altronix® NetWay1X PoE Injector is a third party device; refer to the manufacturer Website, www.altronix.com/products/NetWay1X for additional information to resolve any technical concerns when installing and operating the unit.

Table 1 provides a list of supporting documents for the VoCALL 16US system.

Table 1. Related VoCALL Documents

Document	Part Number
VoCALL 16US 2-Way Emergency Communication System Installation and Operation Manual	P85899
Call Station Installation Instructions	25-1017
Cellular Gateway: AirLink® LX40 Hardware User Guide	Refer to manufacturer's website
PoE Injector: Altronix NetWay1X Installation Guide	Refer to manufacturer's website

Tables 2 through 5 provide specifications for the components included in the Gateway Dialer Kit.

Table 2. Cellular Gateway Specifications

Specification	Description
Manufacturer	Sierra Wireless AirLink LX40
Environmentals	32°F - 98°F (0°C - 37°C) 0 - 70H, non-condensing
Dimensions (including connectors)	4.4 x 3.1 x 1.0 inches (11.1 x 7.9 x 2.5 cm)
Mounting	Mounts to the back plane inside the ABS enclosure
Connections Antenna:	SMA plug
Communications:	RJ45
Power	Input Voltage: 7 - 36 VDC PoE: 13W, Type 1 Power Device, IEEE 802.3af



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Specifications

Table 3. PoE Specifications

Specification	Description
Manufacturer	Altronix NetWay1X
Environmental	32°F - 98°F (0°C - 37°C) 0 - 70% RH, non-condensing
Dimensions	3.5 x 3.5 x 1.0 inches (8.9 x 8.9 x 2.6 cm)
Mounting	Mounts to the Plexiglas plate in the MX16US
Connections	
Antenna	SMA plug
Communications	RJ45 (2 options)
Terminal Block	14 - 18 AWG pair
Power	Input Voltage: 24VDC Output: PoE up to 30W, IEEE 802.3 Short circuit protected

Table 4. Antenna Specifications

Specification	Description
Environmental	32°F - 98°F (0°C - 37°C) 0 - 70% RH, non-condensing
Dimensions	1.92 x 5.90 x 1.77 inches (4.9 x 15.0 x 4.5 cm)
Mounting	Mounts to the outside of the ABS enclosure
Connections	SMA Plug
Cable	RG174 9.8 inches (3m)

Table 5. Enclosure Specifications

Specification	Description
Environmental	32°F - 98°F (0°C - 37°C) 0 - 70% RH, non-condensing
Dimensions (external)	11.8 x 7.9 x 5.0 inches (30.0 x 20.1 x 13.0cm)
Weight	
Empty	0.8 lbs. (0.4 kg)
Installed with: Cellular Gateway Bracket Antenna and cable	3.5 lbs (1.6 kg)
Mounting	Surface mounts to an interior wall