

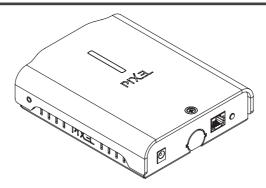
EM-4GEx/1L

User Guide

Rev: 1.0.2347.0

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Description



The EM-4GEx/1L is a wireless 4G gateway, with both Single and Dual SIM options, providing an FXS Phone Line interface, Built-in Battery Backup, and network Fall-Back via Automatic SIM switching (Dual SIM model). It is the perfect solution for providing a traditional analog line to your elevator's emergency phone dialler. This wall-mounted unit, designed for industrial use, is ideal for single-elevator installations, guaranteeing reliable voice communication with integrated fail-safe features ensuring you are always connected.

Features:

- Single & Dual SIM Options
- 4G VoLTE with 3G Fall-Back
- Built-in Battery Backup (8 hours talk-time)
- LED System & Network Status Indicators
- Configuration & Verification via SMS Commands
- Compatible with emFONE devices and all ACMA approved telephones
- Designed to Operate LINE Powered Telephones
- Transient Protection up to 5kV on FXS Interface Port
- Automatic Fault Notification via SMS & Relay Contact
- Compatible with Self Testing & Reporting in accordance to EN: 81-28
- Real-Time Monitoring & Fault Notification via Pixel Eliiot Cloud Platform

Models:

EM-4GEx/1L AU/NZ Wireless Communication Gateway EM-4GEx/1L-G Global Wireless Communication Gateway

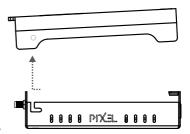


Installation



Refer to Installation Overview Diagram (back page) before proceeding.

- 1 Unscrew the captive screw in the top cover.
- To remove top cover, lift up on a slight angle (as shown), sliding forwards before removing.
- 3 Break out the bottom centre cable conduit entry.



- 4 Insert SIM Card(s), ensuring your preferred network provider is in SIM 1.
- 5 Connect the 4G Antenna.
- Power the unit with the 12V DC Adapter provided & remove to operate on battery backup.

Before proceeding ensure the proposed install location has optimum signal strength, refer to 'System LED indicators' SIG LED.

- 7 Power down the unit by holding down the RESET button for 5 seconds.
- 8 Mount the unit using the two M4 mounting holes on the back.
- 9 Connect the emergency phone dialler to the FXS Phone Line Interface port.
- 10 Re-attach top cover and re-power the unit with the 12V DC Adapter provided.
- If using Pixel Mobile SIMs, the gateway will auto-detect its APN settings as per the table below. (AU/NZ model Only)

SIM Supplier	Network	Default APN
Pixel Mobile	Telstra	tesltra.internet
	Optus	om2moptus
	Vodafone	live.vodafone.com



If the APN for your Network is not listed in the table above you MUST set a Custom APN. Please refer to SMS commands on the back page.

To finalize installation make an outgoing TEST call from your lift emergency phone dialler.



Specifications

Operating Voltage		12V DC (max)
Operating Current		Idle: 0.16A, Charging: 0.95A (max)
4G Bands	LTE FDD	B1/B2/B3/B4/B5/B7/B8/B28 (B12/B13/B18/B19/B20/B25/B26)*
	LTE TDD	B40 (B38/B39/B41)*
	WCDMA	B1/B2/B5/B8 (B4/B6/B19)*
	GSM	B2/B3/B5/B8

^{*} Additional global bands supported with global model (EM-4GEx/1L-G)

Battery Type	3.7V 3000mAh Li-Ion 18650 (2 Cells)
Battery Backup	8 Hours (Talk Time), 14 Hours (Standby)
FXS Port	48V DC, 30mA (up to 1000m max distance)
SIM Card(s)	2FF Standard SIM (25mm x 15mm)
Antenna	2dBi Omni, 50 Ohms, 1.5m Lead with SMA
Operating Temperature	0 - 50°C
Mounting	Surface Wall Mounting
Dimensions (mm)	126.5(W) x 155(H) x 37(D)



