



INDUSTRY

The fourth industrial revolution boosts smart manufacturing while enhancing efficiency and competitiveness. Digicom lives in this environment.

MG500-3
Code 8D5822



Wireless Gateway for Smart Metering Multi Utility applications

- **Solar Panel or externally powered**
- **Penta-band 3G module**
- **Optical ZVEI management interface**
- **UNI/TS 11291 compliant**

MG500-3 is a new generation Gateway for **Multi-Utility wireless telemetry applications** over 169MHz radio frequency according to UNI/TS 11291 regulation.

It comes from Digicom's experience in the M2M and Metering fields and it represents an innovative solution to satisfy the specific market needs.

Based on a powerful hardware architecture focused on Cortex™ microprocessor and Real Time operating system, MG500-3 guarantees high level performances, reliability and a low operating consumptions.

Available in different versions and it can be used in several different applications according to the needs in term of powering or WAN connectivity.

The system power supply, implementing **sophisticated technology of LPC** (Low Power Consumption) can be supplied by a small sized solar panel, by power grid or by PoE (Power over Ethernet, for the Ethernet version).

A 30Wh **internal backup battery** operates during temporary blackout, or when solar radiation is not sufficient, for more than 7 days thanks to the device low consumption.

The **management of the Gateway** is performed through a local ZVEI optics interface.

The **pole mounting** system includes all the accessories for the installation of the Gateway, solar panel and antenna.



PACKAGE CONTENT

- 8D5822 MG500-3
- Omnidirectional antenna
- Solar panel
- Quick Guide

TECHNICAL FEATURES

- Compact Wireless Gateway with integrated 3G module
- ISM 169 MHz Radio
- Omnidirectional 2.1dBi antenna
- Transmission power <500mW, +27dBm
- Cortex™ M4 microprocessor
- RealTime operating system
- Non volatile memory: Flash 1MB, Serial Flash 32MB
- Remote upgradable firmware
- Managed Smart Meter devices: up to 500
- Detectable Smart Meter devices: up to 1500
- Low Energy Bluetooth management interface (optional)
- ZVEI optics management interface
- Anti-tampering system with a accelerometers and anti-tamper
- IP67 plastic housing for outdoor installations
- Operating temperature: from -20°C to +60°C
- CEPT Erc/Rec 70-03 compliant
- ETSI EN300 220 compliant
- UNI/TS 11291-11 European Regulation and 155/08 Italian Regulation compliant
- Power supply of the system:
 - Through 6W solar panels (2 panels, 21.5*13.5 cm)
 - Through external power adaptor on M12 connector
 - Through Power Over Ethernet, 48VDC (optional)
 - Through Telephone line , -48VDC (optional)
- WAN interfaces (depending on version):
 - 2G/3G, HSPA/ GSM/GSPRS up to 7.2 Mbps/5.76Mbps Integrated UMTS/GSM antenna
 - Fast Ethernet with PoE (optional)
- Size and Weight:
 - MG500-3 170x130x100mm - 0,7Kg
 - with 2 panels 330x270x240mm - 1.7Kg
 - Antenna 675x615x80mm - 0,5Kg
- Pole mounting kit included
- CE Mark

