4UMMU

3G Compact Industrial Modem with 2G Fallback

4UMMU cellular modem provides **Wireless Data Communications** to enable **Remote Control** of Smart Grid devices.

The **4UMMU** modem offers rapid implementation of current telecontrol and AMR applications in order to take full advantage of **GRPS/3G** technologies:

- **SMS**: short messages reception and sending.
- **CSD**: data calls by circuit switching establishment.
- **HSCSD**: High Speed Circuit Switch Data by multiple (2+1) time slots.
- **GPRS**: Class B. It offers 4+2 (Class 10) performance, permitting transfer speeds of up to 85.6 kbps.
- **3G**: Class A in compliance with 3GPP version 5.

The **4UMMU** modem is a compact device which contains an advance GSM/GPRS communications core, optimized for the transmission of data using services offered by mobile telephone operators.

Supported Bands

4UMMU is a modem that works in the EGSM 900/DCS 1800 and GSM 850/PCS 1900 bands, enabling its use in Europe and America and depending on the model UMTS 900/2100, UMTS 800/850/2100 or UMTS 850/1900.

Key Features

- ✓ SIM holde tray.
- ✓ SMA type antenna connector.
- ✓ Serial port dual RS232/RS485.
- ✓ Extended power supply.
- ✓ Diagnostic LEDs.
- ✓ IP filtering.
- ✓ Encapsulation optimization (IEC 60870-5-102/102 or DLMS).
- ✓ GMS and GPRS fallback.
- ✓ Flexible TCP/UDP sockets configuration.
- ✓ Remote firmware upgrade.
- ✓ SNMP administration.
- ✓ NTP client.
- ✓ Daily reset configuration.

Installation

The **4UMMU** allows its installation in wall mounting and DIN rail. For DIN rail mounting, it is recommended to use 1 or 2 accessories that are inserted into the rear panel of the modem. For wall mounting, the **4UMMU** has 4 through holes on the sides and a hook for fixing the screws to the wall.

Technical Information

Power Supply	2 options: · AC/DC: 50 - 260 VAC@47 - 63Hz / 40 - 360 VDC. · Isolated DC: 10 VDC - 61 VDC.
Serial Port	RS232 / RS485 dual.
Antenna	Female SMA connector.
Mounting	DIN connector or holes for connection in panel.
LEDs	**ON** - In service **COM TX / RX**: communication through serial port. **LINK**: IP address + Socket connection. **GPRS / 3G**: establishment of session. **485**: configuration of the serial port. **NET**: coverage level. **SIM**: SIM status (active, PIN needed….). **GSM**: registration in GSM network.
Dimensions	Without terminal cover: 166 x 136 x 40 mm. With terminal cover: 216 x 136 x 40 mm.
Configuration and Management	**General AT commands** - Identification. - Serial port configuration. - Call control. - Security. - Multi-Band selection. **Proprietary AT commands:** - General configuration (Init, factory default settings). - GPRS / 3G subscription. - General parameters: timeouts, passwords. - Spy connections. - SNMP traps and configuration. - Actions: reset, open/close sockets. - Diagnostic commands. - Time setting.