

# 4UMML

4G LTE Modem with  
Worldwide Coverage



The **4UMML** modem is a compact device optimized for data transmission and using different services offered by the mobile operators.

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

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

- **SMS**: short messages reception and sending.
- **CSD**: data calls by circuit switching establishment.
- **HSCSD**: establishing communications for data transfer through high speed circuit switching (2+1).
- **GPRS**: Class 33. Although simultaneous registration to GPRS and GSM is possible, in a given moment only one connection is accepted.
- **3G**: supports 3GPP R8 WCDMA.
- **LTE Cat 1**. Worldwide coverage.



## LTE, UMTS/HSPA+ and GSM/ GPRS/EDGE

- ✓ LTE FDD Bands: B1/B3/B7/B8/B20/B28A.
- ✓ LTE FDD Data: Max 10Mbps (DL)/Max 5Mbps (UL).
- ✓ WCDMA Bands: B1/B8.
- ✓ WCDMA Data: Max 384Kbps (DL)/Max 384Kbps (UL).
- ✓ GSM Bands: B3/B8.
- ✓ EDGE: Max 296Kbps (DL)/Max 36.8Kbps (UL).
- ✓ GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL).

## 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 **4UMML** 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 **4UMML** has 4 through holes on the sides and a hook for fixing the screws to the wall.



## Technical Information

<b>Power Supply</b>	2 options: · AC/DC: 50 - 260 VAC@47 - 63Hz / 40 - 360 VDC. · Isolated DC: 10 VDC - 61 VDC
<b>Serial Port</b>	RS232/RS485 dual.
<b>Antenna</b>	Female SMA connector.
<b>Mounting</b>	DIN connector or holes for connection in panel.
<b>LEDs</b>	<b>ON</b> - In service <b>COM TX / RX</b> : communication through serial port. <b>LINK</b> : IP address + Socket connection. <b>GPRS / 3G</b> : establishment of session. <b>485</b> : configuration of the serial port. <b>NET</b> : coverage level. <b>SIM</b> : SIM status (active, PIN needed....). <b>GSM</b> : registration in GSM network.
<b>Dimensions</b>	Without terminal cover: 166 x 136 x 40 mm. With terminal cover: 216 x 136 x 40 mm.
<b>Configuration and Management</b>	<b>General AT commands</b> - Identification - Serial port configuration. - Call control. - Security. - Multi-Band selection. <b>Proprietary AT commands:</b> - 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.
<b>Authentication</b>	TACACS