

owa2X family

owa21I-TELEMETRY

WIRELESS SENSOR & CONTROL APPLICATIONS

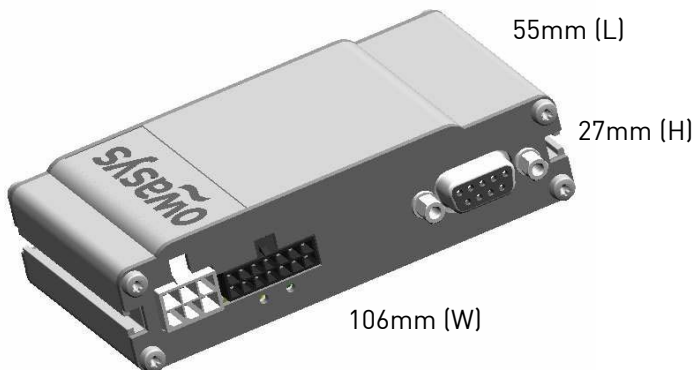
HANDLE YOUR DISTRIBUTED TELEMETRY APPLICATION BY MEANS OF A POWERFUL WIRELESS GPRS NODE INSTALLED IN YOUR REMOTE EQUIPMENT.

LOW POWER MODE SOLUTIONS AND BATTERY BACK-UP TO ALLOW REMOTELY INSTALLED DEVICES WITH MINIMUM ON SITE MAINTENANCE.

ALL THE EXPERIENCE OF THE owa2X PRODUCTS FOCUSED IN A SPECIALIZED PRODUCT FOR WIRELESS SENSOR & CONTROL APPLICATIONS.

- GPRS Class B, Class 10 (4+2), GSM dual band 900/1800.
- TCP/IP stack for transparent Internet Connection.
- Application software upgradeable over the air.
- Designed for Low Power Applications.
- Dedicated internal battery for Real Time Clock.
- Based on owa2X SW architecture.
- Compact Size.

Your reference partner for wireless communication nodes!



owasys

Advanced Wireless Devices

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Power Supply:
 - Nominal Voltage Range: 6 to 36 Vdc.
- Interfaces:
 - Power Supply.
 - 3 Digital Inputs, 1 Digital Output, 1 Power Output.
 - Power ON/OFF input signal.
 - 2 Analog inputs.
 - RS-232 serial port.
 - RS-485 port.
 - SPI serial port for owa21X accessories.
 - GSM antenna connector.
 - 1 Odometer⁽¹⁾ input.

(1) Multiplexed with one of the digital inputs.

- Approvals
 - CE Marking.
- Power Consumption-Typical Average @ 12V

| | |
|----------------------|--------|
| Zero Power Mode | 25 uA |
| Low power mode | 1 mA |
| Sleep ⁽²⁾ | 5 mA |
| Run ⁽³⁾ | 125 mA |

(2) CPU in deep sleep.

(3) GSM transmitting at maximum power.

- External LEDs for status information.
- RTC with dedicated battery, 1 month autonomy at 25°C.
- Temperature Ranges:

| | |
|---|----------------|
| Operating (Fully GSM compliant) | -20°C to +70°C |
| Operating with GSM OFF | -40°C to +85°C |
| Storage | -40°C to +85°C |
| With internal battery back-up accessory. ⁽⁴⁾ | -20°C to +60°C |

(4) Operating from Battery.

FIRMWARE SPECIFICATIONS

- 32 bits RISC ARM7 core up to 60 MIPS (Dhrystone 2.1) at 70 Mhz.
- Linux OS (Kernel v.2.4.18).
- TCP/IP Stack
- Memory:
 - 8 Mbyte FLASH
 - 16 Mbyte RAM
- Application Programming Interface for:
 - Owa21 control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os.
- Multiplexed communication supported with GSM-GPRS modem to allow GSM events and SMS during GPRS connection.

GSM/GPRS SPECIFICATIONS

- EGSM 900 / GSM1800.
- Power Output at 900 MHz: 2W.
- Power Output at 1800 MHz: 1W.
- GPRS Class B, Class 10 (4+2).
- Audio and CSD Data calls.
- SMS (MT/MO).

MECHANICAL SPECIFICATIONS

- Dimension (mm): 106 (W) x 27 (H) x 55 (L).
- Material: Aluminum anodized.
- Weight < 170gr (plain device with no accessories).
- Connectors:
 - GSM: FAKRA D Plug.
 - AMP Micro Mate-N lock 14 pins.
 - RS-232 DB-9 (Female).
 - Molex Mini-fit 6 pins.
 - Tamper-proof SIM card holder.

UNIVERSAL DEVELOPMENT KIT

A development kit is available, including:

- GSM/GPRS, GPS and Bluetooth/WLAN antennas.
- Developer's board.
- Power supply cables.
- Cables for interfaces.
- CD with: Cross compiler, API's library, manuals, and applications notes.
- Wall-plug to supply the owa21X and Development Board.

RELATED PRODUCTS AND ACCESORIES

- Internal Battery back-up accessory 1000mAh
- External Piggy Back accessory with high capacity battery.
- owa21A-TRACK.
- owa2X products.