

owa22I

owa2X family

INTELLIGENT DATA CAPTURE GSM/GPRS TERMINAL

GSM/GPRS HARDWARE TERMINAL WITH OPEN SOFTWARE FOR THE DEVELOPMENT OF WIRELESS APPLICATIONS IN INDUSTRIAL ENVIRONMENTS. INTELLIGENT DATA CAPTURE TERMINAL.

HIGHEST RELIABILITY IN DATA TRANSMISSION AND REMOTE CONTROL. RATIONALIZING RESOURCES AND PROVIDING THE BEST SOLUTION FOR EVERY CASE.

COMBINES LINUX OS, GSM/GPRS WITH IP CONNECTIVITY.

- GPRS Class B, Class 10 (4+2), GSM Quad Band, 850MHz, 900MHz, 1800MHz and 1900MHz.
- ARM 7 core up to 60 MIPS, Linux OS and 8 Mbyte FLASH Memory.
- TCP/IP stack for transparent Internet Connection.
- Interfaces: RS232, RS485, CAN, Audio, general purpose analog and digital I/Os.
- Small Size.
- Software upgradeable over the air (controlled by the customer application).

*Now, remote devices at the control
of your fingertips!*



168 mm. (W)

35 mm. (H)

55,25 mm. (L)

owasys

Advanced Wireless Devices

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Power Supply:
 - Nominal Voltage Range: 12 to 36 Vdc.
 - Maximum Voltage Range: 8 to 40 Vdc.
- Interfaces:
 - Power Supply.
 - 2 Analog Inputs.
 - 7 Digital Inputs (4 + 3).
 - 5 Digital Outputs (4 + 1), 2 configurable as PWM.
 - Audio IN/OUT (2,5 W).
 - RS-232 Serial Port.
 - RS-485 Port.
 - Odometer Input
 - CAN Port.
 - GSM antenna connector.
- Approvals
 - CE Marking.
 - e-marking

Power Consumption-Typical Average @24V

Off	0,2 mA
Deep Sleep(1)	13 mA
Run(2)	90 mA
Battery Recharge(3)	55 mA

- (1) Only CPU in stand by.
 (2) CPU+GSM (voice call at max. Power), running.
 (3) Only for owa22I/b.

Temperature:

Operating	-25°C to +55°C
Operatig with GSM OFF	-40 C to +85 C
Storage	-40°C to +85°C
Operation with battery back up (3)	-20°C to +55°C

(3) Only for owa22I/b

FIRMWARE SPECIFICATIONS

- 32 bits RISC ARM7 core up to 60 MIPS (Dhrystone 2.1) at 70 Mhz.
- Linux OS (Kernel v.2.4.18).
- Memory:
 - 8 Mbyte FLASH
 - 16 Mbyte RAM
- Application Programming Interface for:
 - Owa22I control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os, CAN.

GSM/GPRS SPECIFICATIONS

- GSM850 + EGSM900 + DCS1800 + PCS1900.
- Power Output Class 4 (2W) for GSM850/EGSM900.
- Power Output Class 1 (1W) for DCS1800/PCS1900.
- GPRS Class B, Class 10 (4+2).
- Audio calls.
- Data calls.
- SMS (MT/MO).

MECHANICAL SPECIFICATIONS

- Dimension: 168 (W) x 35 (H) x 55,25 (L).
- Weight: 280 grams
- Material: Aluminium Anodized.
- Connectors:
 - 1 SMA (female).
 - Molex 24 pins P/N 90130-3124.
 - RJ45.
 - 2 Jack 3,5 mm.
 - RS-232 DB-9 (female).
 - Molex Mini-fit 6 pins P/N 39-30-1060.
 - SIM card holder.

DEVELOPMENT KIT

A development kit is available, including:

- GSM/GPRS, GPS and Bluetooth antennas.
- Developer's board.
- Power supply cable.
- Cables for interfaces.
- CD with: Cross compiler, API's library, manuals, and application notes.

RELATED PRODUCTS

- Owa22I/b: with battery back-up.
- Owa22A: with GPS.
- Universal Development Kit: a kit designed to accelerate the owa2X products integration and develop powerful vertical applications.
- owa22I/22A-BT: 100 meters Bluetooth™ connectivity and USB 1.1.
- owa22I-ETH: Ethernet 10baseT (10 Mbps, RJ45) and USB 1.1.

OWASYS

Parque Tecnológico, 207-B
 48160 - DERIO. Vizcaya (Spain)
 Tel: +34 946 025 323
 Fax: +34 946 025 353
 e-mail: info@owasys.com

www.owasys.com