

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 8 (4+1), GSM dual band 900/1800.
- ARM 7 core up to 60 MIPS, Linux OS and 1 Mbyte FLASH Memory free for customer application.
- TCP/IP stack for transparent Internet Connection.
- Interfaces: RS232, RS485, CAN, Audio, general purpose analog and digital I/Os.
- Small Size.
- Application software upgradeable over the air.

*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.
 - Maximun 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.
- Aprovals
 - 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)	Δ55mA

(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
Operating but not fully compliant with GSM	-25°C to +70°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:
 - 4 Mbyte FLASH (1 Mbyte available for SW application)
 - 16 Mbyte RAM (2 Mbyte available for SW application)
- Application Programming Interface for:
 - Owa22I control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os, CAN.

GSM/GPRS SPECIFICATIONS

- EGSM 900 / GSM1800.
- Power Output at 900 MHz: 2W.
- Power Output at 1800 MHz: 1W.
- GPRS Class B, Class 8 (4+1).
- 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 antenna.
- 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.

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