

owa22I-ETH

WIRELESS EMBEDDED COMPUTERS WITH EHTERNET CONNECTIVITY FOR TELEMETRY

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

HIGHEST RELIABILITY IN DATA TRANSMISSION AND REMOTE CONTROL.

IT COMBINES LINUX OS, GSM/GPRS WITH EMBEDDED IP CONNECTIVITY AND LOCAL NETWORKING CONNECTIVITY VIA ETHERNET.

IT ENABLES IMMEDIATE ADDITION OF WIRELESS GSM/GPRS COMMUNICATION TO A REMOTE ETHERNET OR WLAN BASED TELEMETRY NETWORK.

- GPRS Class B, Class 10 (4+2), GSM Quad Band, 850MHz, 900MHz, 1800MHz and 1900MHz.
- TCP/IP stack for transparent Internet Connection.
- Embedded IP routing and firewall capabilities.
- RS232, RS485, CAN, Audio, General Purpose analog and digital I/Os
- Ethernet 10baseT (10 Mbps).
- USB 1.1 compliant host.
- Back-up for Real Time Clock.
- 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)

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Power Supply:
 - Nominal Voltage Range: 12 to 36 Vdc.
- Interfaces:
 - Power Supply.
 - 7 Digital Inputs, 5 Digital Outputs, 2 Analog Inputs.
 - Audio IN/OUT (2,5 W).
 - RS-232 Serial Port. RS-485 and CAN Ports.
 - Odometer Input.
 - GSM connector.
 - Ethernet 10baseT connector.
 - USB 1.1 host connector.
- Approvals
 - CE Marking.
- Power Consumption-Typical Average @24V

Off	0,2 mA
Deep Sleep	13 mA
Run (GSM voice call)	90 mA
Ethernet connected (Δ)	7 mA
USB active (Δ)	2 mA
Battery Recharge [1]	55 mA

(1) Only for owa22A/b-ETH

- Temperature:

Operating	-25°C to +55°C
Operatig with GSM OFF	-40 C to +85 C
Storage	-40°C to +70°C
Operation with battery back up [1]	-20°C to +55°C

(1) Only for owa22A/b-ETH

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
- Embedded routing and firewall capabilities.
- Memory:
 - 8 Mbyte FLASH
 - 16 Mbyte RAM
- Application Programming Interface for:
 - Owa22A control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os.

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 and CSD calls.
- SMS (MT/MO).

MECHANICAL SPECIFICATIONS

- Dimension: 168 (W) x 35 (H) x 55,25 (L).
- Weight: < 360 gr.
- Material: Aluminium anodized.
- Connectors:
 - 1 SMA
 - Molex 24 pins P/N 90130-3124.
 - RJ45 for audio and secondary UART.
 - RS-232 DB-9 (Female)
 - Molex Mini-fit 6 pins P/N 39-30-1060.
 - Standard RJ45 Ethernet 10baseT connector.
 - USB type A receptacle connector.

UNIVERSAL DEVELOPMENT KIT

A development kit is available, including:

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

RELATED PRODUCTS

- owa22I/b-ETH: with battery back-up.
- owa22A-ETH: with GPS.
- owa22I/22A.
- owa22I/22A-BT: 100 meters Bluetooth™ and USB 1.1.

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