

owa22I-BT

WIRELESS EMBEDDED COMPUTERS WITH BLUETOOTH CONNECTIVITY FOR TELEMETRY

GSM/GPRS HARDWARE TERMINAL WITH OPEN SOFTWARE FOR THE DEVELOPMENT OF FULLY 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 WIRELESS CONNECTIVITY VIA BLUETOOTH TECHNOLOGY.

- GPRS Class B, Class 8 (4+1), GSM dual band 900/1800.
- TCP/IP stack for transparent Internet Connection.
- Embedded IP routing and firewall capabilities.
- RS232, RS485, CAN, Audio, General Purpose analog and digital I/Os.
- Bluetooth™ embedded functionality (100 meters).
- USB 1.1 compliant host.
- Back-up for Real Time Clock.
- 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)

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Power Supply:
 - Nominal Voltage Range: 12 to 36 Vdc.
- Interfaces:
 - Power Supply.
 - 3 Digital Inputs.
 - Power ON/OFF input signal.
 - Audio IN/OUT.
 - RS-232 Serial Port.
 - GSM and Bluetooth antenna connectors.
 - 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 + GPS)	90 mA
Bluetooth connected (Δ)	16 mA
USB active (Δ)	2 mA
Battery Recharge (1)	55 mA

(1) Only for owa22A/b-BT

- Temperature:

Operating	-25°C to +55°C
Operating but not fully GSM compliant	-25°C to +70°C
Storage	-40°C to +70°C
Operation with battery back up (1)	-20°C to +55°C

(1) Only for owa22I/b-BT

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 (4 Mbyte available for SW application)
 - 16 Mbyte RAM
- Application Programming Interface for:
 - Owa22A control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os.
 - Bluetooth applications.

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

BLUETOOTH™ SPECIFICATIONS

- 100 Meters, class 1.
- Bluetooth™ 1.1 compliant.
- Virtual Serial ports emulation.
- Wireless networking.

MECHANICAL SPECIFICATIONS

- Dimension: 168 (W) x 35 (H) x 55,25 (L).
- Weight: < 360 gr.
- Material: Aluminium anodized.
- Connectors:
 - 2 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.
 - 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-BT: with battery back-up.
- owa22A-BT: with GPS.
- owa22I/22A.
- owa22I/22A-ETH: Ethernet 10baseT (10 Mbps, RJ45) and USB 1.1.

OWASYS

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