

owa221

owa2X family

WIRELESS TERMINALS FOR INDUSTRIAL ENVIRONMENTS

HARDWARE TERMINAL WITH OPEN SOFTWARE FOR THE DEVELOPMENT OF WIRELESS APPLICATIONS IN INDUSTRIAL ENVIRONMENTS.

WIRELESS CONNECTIVITY IN THE INDUSTRIAL SECTOR.

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 4 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!*



owasys

Advanced Wireless Devices

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Temperature:
 - Operating: -25 °C to +55 °C.
 - Operating without GSM: -25 °C to +65 °C.
 - Storage: -40 °C to +75 °C.
- Power Supply:
 - Nominal: 12 to 36 Vdc.
 - Maximum: 8 to 40 Vdc.
- Power Consumption:
 - Sleep mode: < 0,1 W.
 - Operating: < 8 W.
- Interfaces:
 - Power Supply.
 - 2 Analog Inputs.
 - 7 Digital Inputs (4 + 3).
 - 5 Digital Outputs (4 + 1), 2 configurable as PWM.
 - Audio IN/OUT.
 - RS-232 Serial Port.
 - RS-485 Port.
 - CAN Port.
 - GSM antenna connector.
- CE Marking.

FIRMWARE SPECIFICATIONS

- 32 bits RISC ARM7 core up to 60 MIPS (Dhrystone 2.1) at 70 Mhz.
- Linux OS (Kernel v.2.4.18).
- Available memory for software application:
4 Mbyte FLASH, 2 Mbytes RAM.
- Application Programming Interface for:
 - Platform basic configuration.
 - 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).
- Material: Aluminium.
- Connectors:
 - 2 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

In order to support the integration work, a developers kit is available, including:

- Owa22I.
- GSM/GPRS antenna.
- GPS antenna.
- Developer's board.
- Power supply cable.
- Cables for interfaces.
- Programming environment and API's library.
- CD with integrators manual.

RELATED PRODUCTS

- Owa22I/b: With battery back-up.
- Owa22A: With GPS.
- UDK Owa22: Development Kit for Owa22.

(1) GSM transceiver transmitting at maximum power.

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