

owa2X family

owa211

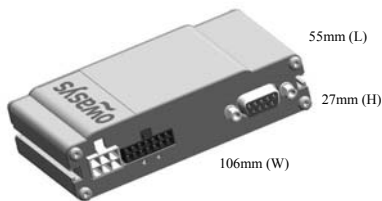
WIRESLESS SENSOR & CONTROL APPLICATIONS

HANDLE YOUR DISTRIBUTED TELEMETRY APPLICATION BY MEANS OF A POWERFUL WIRELESS GPRS NODE INSTALLED IN YOUR REMOTE EQUIPMENT.

LOW POWER MODE SOLUTIONS AND BATTERY BACK-UP TO ALLOW REMOTELY INSTALLED DEVICES WITH MINIMUM ON SITE MAINTENANCE.

ALL THE EXPERIENCE OF THE owa2X PRODUCTS FOCUSED IN A SPECIALIZED PRODUCT FOR WIRELESS SENSOR & CONTROL APPLICATIONS.

- GPRS Class B, Class 10 (4+2), Quad Band, 850MHz, 900MHz, 1800MHz and 1900MHz.
- TCP/IP stack for transparent Internet Connection.
- Application software upgradeable over the air.
- Designed for Low Power Applications.
- Dedicated internal battery for Real Time Clock.
- Based on owa2X SW architecture.
- Compact Size.



Models	owa211-Telemetry RS232	owa211-Telemetry RS485	owa211-Telemetry-ETH	owa211-ETH	owa211-Basic	
Power Connector	1	Vin 6-36V _{DC}	Vin 6-36V _{DC}	Vin 6-36V _{DC}	Vin 6-32V _{DC}	
	2	GND	GND	GND	GND	
	3	IGNITION (in, 40V)	IGNITION (in, 40V)	IGNITION (I/O, 40V)	NC	RS232 TX1
	4	CONTACT (in, 40V)	CONTACT (in, 40V)	CONTACT (I/O, 40V)	NC	NC
	5	ON/OFF	ON/OFF	ON/OFF	NC	GND
	6	LIGHTS/ODO (in, 40V)	LIGHTS/ODO (in, 40V)	LIGHTS/ODO (I/O, 40V)	NC	RS232 RX1
Multipurpose Connector	1	ADIN1	ADIN1	ADIN1	-	-
	2	NC	NC	I/O-3 (5Vin, 3.1Vout)	-	-
	3	IN0 (5V)	IN0 (5V)	I/O-2 (40V)	-	-
	4	OUT0 (3.1V)	OUT0 (3.1V)	I/O-0 (5Vin, 3.1Vout)	-	-
	5	GND	GND	GND	-	-
	6	RS232 TX1	RS485 B	RS232 TX1	-	-
	7	Vout (out)	Vout (out)	Vout (I/O, 40V)	-	-
	8	ADIN0	ADIN0	ADIN0	-	-
	9	NC	NC	I/O-4 (5Vin, 3.1Vout)	-	-
	10	MUTE (out, 40V)	MUTE (out, 40V)	MUTE (I/O, 40V)	-	-
	11	OUT1 (3.1V)	OUT1 (3.1V)	I/O-1 (5Vin, 3.1Vout)	-	-
	12	4V5 (out)	4V5 (out)	4V5 (out)	-	-
	13	RS232 RX1	RS485 A	RS232 RX1	-	-
	14	BAT_CTL	BAT_CTL	BAT_CTL	-	-
DB9	FULL RS232	FULL RS232	FULL RS232	FULL RS232	FULL RS232	
GSM	FAKRA	FAKRA	SMA	SMA	SMA	
Ethernet	-	-	10baseT (10 Mbps), RJ45	10baseT (10 Mbps), RJ45	-	
Battery	Optional 1000mAh	Optional 1000mAh	Optional 1000mAh	-	-	

Your Reference Partner for Wireless Communication Nodes!

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

- Power Supply:
 - Nominal Voltage Range: 6 to 36 Vdc.
- Approvals
 - CE Marking.
- Power Consumption-Typical Average @ 12V

Zero Power Mode	4 μ A
Low power mode	2 mA
Sleep(2)	6 mA
Run(3)	125 mA

(2) CPU in deep sleep.

(3) GSM transmitting at maximum power.

- External LEDs for status information.
- RTC with dedicated battery, 1 month autonomy at 25°C.
- Temperature Ranges:

Operating (Fully GSM compliant)	-30°C to +75°C
Operating with GSM OFF	40°C to +85°C
Storage	40°C to +85°C
With internal battery back up accessory. (4)	20°C to +60°C

(4) Operating from Battery.

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
 - 16 Mbyte RAM
- Application Programming Interface for:
 - Owa21 control.
 - Power management.
 - GSM/GPRS.
 - Internet connection.
 - Controlling all the interfaces: I/Os.
- Multiplexed communication supported with GSM-GPRS modem to allow **GSM events and SMS during GPRS connection.**

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 Data calls.
- SMS (MT/MO).

MECHANICAL SPECIFICATIONS

- Dimension (mm): 106 (W) x 27 (H) x 55 (L).
- Material: Aluminium anodized.
- Weight < 170gr (plain device with no accessories).
- Connectors:
 - GSM: FAKRA D Plug, or SMA
 - AMP Micro Mate-N lock 14 pins.
 - RS-232 DB-9 (Female).
 - Molex Mini-fit 6 pins.
 - Tamper-proof SIM card holder.
 - RJ45 Shielded Ethernet Jack

UNIVERSAL DEVELOPMENT KIT

A development kit is available, including:

- GSM/GPRS, GPS and Bluetooth/WLAN antennas.
- Developer's board.
- Power supply cables.
- Cables for interfaces.
- CD with: Cross compiler, API's library, manuals, and applications notes.
- Wall-plug to supply the owa21X and Development Board.

RELATED PRODUCTS AND ACCESORIES

- Internal Battery back-up accessory 1000mAh
- owa21A-Track.
- owa2X products.