



Adaptable and tailor-made Satellite solutions

Maestro Satellite is a multiplatform communicating device that combines cellular wireless (GSM/GPRS) and satellite data connectivity with GPS navigation and a wide range of connectivity in option this is the ideal solutions for demanding tailor made satellite solutions.

Powered by ORBCOMM satellite communication the Maestro Satellite provides low cost, reliable, two-way data communications services around the world through a global network of low-earth orbit (LEO) satellites and accompanying ground infrastructure.

Key Features:

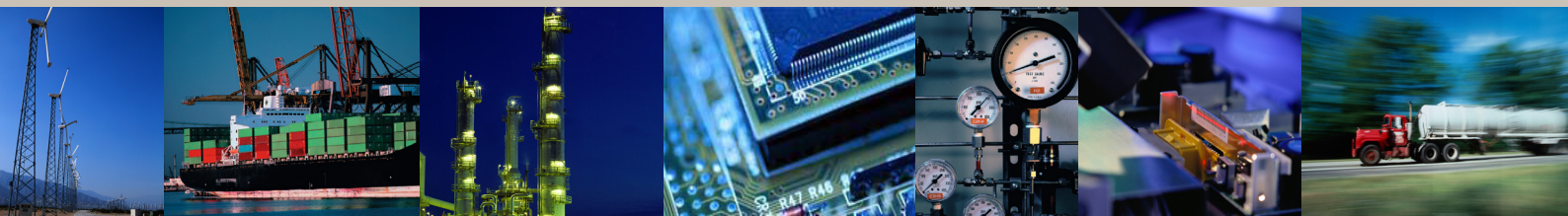
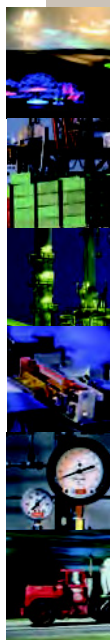
- Track your asset even without GSM coverage
- Full 2 way communication even in Satellite mode
- Custom connectivity and level of integration
- Design for industrial application

Target Applications:

- Vehicule tracking
- Containers
- Fluid tanks
- Marine vessels
- Asset Tracking
- Heavy equipment
- Pipelines
- Oil wells and others

Custom Vertical Operations

Applying more than 15 years experience on M2M communication, Maestro team provides effective and highly reliable wireless solutions from off-the-shelf, easy to use modems up to specific and optimized solution. With the tailor made developments to meet unique customer requirements, Maestro offering a complete solution enabling customers to reduce significantly time to market.



Technical information

GENERAL FEATURES

- LED indication of Network Registration
- Din Rail Mountable (optional)
- Goldcap fro RTC backup
- Built-in watchdog chip to prevent modem lock-up
- Control via AT commands (GSM 07.05, GSM 07.07 and Wavecom)
- Operational Temperature :
- Full specification: -20°C to +55°C (ETSI compliant)
- Storage: -40°C to +85°C
- Metal Casing
- Weight: NA

ELECTRICAL CHARACTERISTICS (PRELIMINARY)

- Supply voltage range: 6-30V DC

POWER CONSUPTION (PRELIMINARY)

Power consumption (typ)

GSM Alarm: 16 uA

GSM Standby and Idle: 1,5 mA to 38 mA (GSM off/on)

GSM (2W) / GPRS cl.10: 250 mA / 400 mA

Satellite TX mode VCC 3V6: 250mA

Satellite TX mode VCC 12V: 1500mA

Satellite Non-TX mode VCC 12V: 20mA

GPRS

- GPRS Multislot class 10 / EGPRS Multislot class 10
- Mobile station class B
- PBBSCH support
- Coding schemes CS1 to CS4 for GPRS
- Coding schemes MCS1 to MCS9 for EGPRS

Satellite

- Orbcmm Transceiver
- Tx 148 to 150.05 MHz
- Rx 137 to 138 MHz

Nominal Sensitivity:

850/900 MHz Rx: -109 dBm

1800/1900 MHz Rx: -108 dBm

850/900 MHz Tx: 33 dBm -1/+2 (2W)

1800/1900 MHz Tx: 30 dBm -1/+2 (1W)

GPS (in option)

- eRide's OPUS III

INTERFACE

- GPRS Antenna: SMA female connector
 - GPS Antenna:
 - Satellite Antenna:
 - RS232 on 9 pin female Sub-D connector
 - DC power supply connector
 - Sim card: 1.8V / 3V
 - 4x digital inputs
 - 2x analog inputs
 - 1x interrupt input
 - 2x digital outputs
 - 1x analog output
 - I²C bus
- All interface on minifit connectors (except RS232)

SOFTWARE SUPPORT

Processor: Wavecom Wireless CPU (Memory 256 KB SRAM & 1.5MB Flash)

OS : Wavecom's OPEN AT

Pre-installed features (preliminary)

- AUTOTCP
- AT Command Over SMS
- Modem status check & monitoring
- Command Line Interface to program sequence of actions driven by events
- Download Over The Air (DOTA) for application software upgrade
- Download Over The Air (DOTA) for firmware upgrade (available at a later stage)
- InSIM available on-demand
- IDS (Intelligent Device Services) available on-demand

CERTIFICATIONS

RoHS compliant

NETWORK CERTIFICATION

N/A

Distributor's Contact

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