

## Adaptable, powerful and tailor-made modem

Maestro Heritage combines industrial-grade design GSM/ GPRS/EDGE technologies with pluggable boards for Machine to Machine applications.

This modular and scalable design concept transforms the Heritage into a Multitechnology Gateway which features a powerful operating system offering Download Over The Air capabilities and innovative embedded applications.

Being customizable both in terms of hardware and software, the Maestro Heritage modem is the best tailored solution of choice in direct response to market needs.



## Features

- Quad-band GSM 850/900/1800/1900 MHz
- Tri-band UMTS 850/1900/2100 MHz
- Real Time Clock Backup
- Built-in watchdog chip
- High speed data transfer:  
Down: 7.2Mbps  
Up: 2Mbps
- Expansion slot for additional multi-technology connectivity

## Low Latency and High Transfer Rate

Providing always-on Internet connectivity and high data transfer rate capability, the Maestro Heritage enables devices in remote sites to be monitored and data to be transferred to a central server continuously. With additional Ethernet or short range wireless connectivity, remote users can easily access to their on-site equipments transparently any time, virtually everywhere.



### SMART Monitor - Affordable telemetry monitoring solution

Trinity's SMART monitor offers capabilities for monitoring multiple wireless devices across multiple networks:

- **Advanced search per view capabilities**
- **Comprehensive data monitoring**
- **Modem and Asset management:** Data, maps, events and more
- **SIM management:** Data usage limites, enable/disable SIMs
- **Administration:** web-based interface

YOUR ASSET



# Maestro Heritage

Managed EDGE Modems

## Specifications

### GENERAL FEATURES

- Quadband GSM 850/900/1800/1900 MHz
- GPRS class 10 / EDGE class 10
- ETSI GSM Phase 2+ compliant
- LED Bar RSSI (Receive Signal Strength Indication)
- LED indication of Network Registration, Up / Down Data Traffic and EDGE availability
- Expansion slot for add-on module for customised functions
- Din Rail Mountable
- Real time clock backup up by Supercap
- Built-in watchdog chip to prevent modem lock-up
- Control via AT commands (GSM 07.05, GSM 07.07 and Wavecom)
- Maestro's software pre-installed (see below)
- Temperature range:
  - Operational: -40°C to +85°C
  - Storage: -40°C to +85°C
- Casing: plastic ABS material
- Dimensions: 79 x 84 x 27mm
- Weight: 100g

### ELECTRICAL CHARACTERISTICS

- Supply voltage range: 5-32V DC
- Power consumption
  - GSM 850/900 (PCL 5): 310mA@5V, 50mA@32V
  - DCS 1800/PCS 1900 (PCL 0): 240mA@5V, 40mA@32V
  - GPRS 850/900 CL10 (PCL 5): 520mA@5V, 80mA@32V
  - GPRS 1800/1900 CL10 (PCL 0): 390mA@5V, 70mA@32V
- Idle consumption: 80mA@5V, 18mA@32V
- Output power:
  - 2W for GSM850/900 GPRS850/900
  - 1W for GSM1800/1900 GPRS1800/1900
  - 0.5W for EGPRS 850/900
  - 0.4W for EGPRS 1800/1900

### GPRS / EDGE

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

### CSD DATA TRANSMISSION

- Asynchronous, Transparent & Non Transparent
- CSD up to 14.4 kbps

### SMS

- Point-to point MO/MT
- Text & PDU
- Cell Broadcast

### FAX

- Fax G3 (class 1 & class 2)

### INTERFACE

- Antenna: SMA female connector
- RS232 on 9 pin female Sub-D connector
- DC power supply connector
- Sim card: 1.8V / 3V

### SOFTWARE SUPPORT

- Processor: Wavecom Wireless CPU (Memory 256 KB SRAM & 1.5MB Flash)
- OS : Wavecom's OPEN AT

### Pre-installed features

- 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)

### Optional features

- Wireless gateway for Modbus RTU protocol
- Modbus Master with SMS server
- Modbus I/O

### CERTIFICATIONS

- CE
- R&TTE
- FCC
- AT&T
- RoHS compliant



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