



Maestro is a series of GSM, GPRS and EDGE modems designed to meet market demands for robust and reliable communications at a reasonable price. Maestro can handle voice, SMS, fax and data communications. Maestro Heritage is the latest modem in the Maestro series, and combines a fast connection with the ability to connect various expansion cards.



Maestro Heritage consists of a base with GSM / GPRS / EDGE communications in an industrial enclosure. The base unit can connect different modules depending on the user's needs, which provides a technology platform that fits many different applications.

The modular and scalable Heritage design also includes a powerful operating system that offers downloading software via the air and a series of embedded functions. Maestro Heritage is the best solution to meet different customer needs in various applications. Maestro Heritage has an open platform and optional cards that can be adapted for each application. If you need a separate card, Maestros knowledgeable staff can develop JDM and OEM solutions.

.: Expansion cards

For Heritage, Maestro cards can be connected according to needs. Currently there is a I / O card with 6 digital inputs and outputs available for monitoring and remote control. There is also an ethernet card available for Heritage. During the year, a GPS card will also be introduced.

.: Status of the modem

Maestro Heritage has built-in diodes for RSSI signal strength so that you can see the current signal strength on the modem. There are also LEDs for indication of contact with the network, data traffic status and if the modem has EDGE contact or not. The modem has built-in bracket for DIN rail and a built-in real-time clock. The modem has a built-in watchdog chip to restart the modem if it loses contact with the network.

.: For all types of applications

Maestro is used primarily for data communication between different types of machines, such as the transfer of information from vehicles, operation monitoring, GPS systems, communication with the display on advertising boards and alarm systems.



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)
 - Casing: plastic ABS material
 - Dimensions: 79 x 84 x 27mm
 - Weight: 100g
- Temperature range:
- Operational: -20°C to +55°C (ETSI compliant)
 - Functional: 40°C to +85°C
 - Storage: -40°C to +85°C

Electrical Characteristics

- Supply voltage range: 5-32V DC
- Power consumption:
- GSM 850/900 (PLC 5): 310mA@5V, 50mA@32V
 - DCS 1800/PCS 1900 (PLC 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
- PBBCCH support
- Coding schemes CS1 to CS4 for GPRS
- Coding schemes MCS1 to MCS9 for EGPRS

CS D 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 & class2)

Interfaces

- Antenna: SMA female connector
- RS232 on 9 pin female Sub-D connector
- DC power supply connector
- SIM card: 1.8V / 3V
- Expansion slot with 50 pin CF type connector for mounting add-on module

Software support

- Processor: Wavecom Wireless CPU (Memory: 256KB 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
- RoHS compliant

