



XM1600S

Industrial GSM/GPRS terminal designed for DIN rail mounting in space-sensitive control cabinets. For a wide range of applications in the automation and M2M market. Advanced connectivity and flexible power input. Very small mounting size.

Benefits:

- Enables any device to send and receive data via quad-band 850,900,1800,1900 MHz GSM network.
- Based on Motorola G.Lite, one of the most compact modules available and ideally suited for a wide range of M2M applications.
- Exchangeable with Analog, ISDN and WLAN terminals from xmodus.
- FTA, FCC, IC, PTCRB, GCF and EMC regulatory approvals. Full approved in Europe.

Functions:

- AT-Command Set Interface Protocol ETSI GSM 07.05, 07.07 and 07.10.
- Quad band 850/900/1800/1900Mhz GSM .
- Class 4 (2W @ 900 MHz)
- Class 1 (1W @ 1800MHz)
- RX sensitivity -106dBm
- GPRS multi slot classes up to Class 10
- GPRS Class B multiplexing.
- Sleep mode < 2.5mA @ DRX9
- SMS services features MO/MT text and PDU modes

Connectivity:

- CSD max. BR 14.4 Kbps.
- GPRS max. BR 85.6 Kbps (CS4).
- Transparent connections.
- V.32bis and ISDN V.110 connection with 9600bps.
- RS-232 Serial Interface with ESD protection (D-SUB9).
- RS-485/RS-422, half-duplex interface with auto-direction, full isolation (3000V) and ESD protection.
- Configurable bus-termination for the RS-485 interface.

Specifications:

- Compact Size: 120 x 101 x 23 mm.
- 9...32 VDC Supply.
- Typical Power use average: 270mA @ 9VDC
- Typical Power use @ PCL 5: 0.5A peak.
- Serial RS-232, RS-485, RS-422 interfaces.
- Weight: 100 gram.
- SIM card reader interface.
- SMA (female) RF Antenna Interface.
- Operating temperature: -20° to +60°
- 2 Year warranty.

Ordering:

XM1600S

| Interface Connections | |
|-----------------------|---|
| | <p>Top Side Connectors:</p> <p>P1: RS-232 Serial Interface P2: RS-485 / RS-422 Interface J1 - J3: RS-485 Bus Termination P3: GSM Antenna Interface</p> |
| | <p>Bottom Side Connectors:</p> <p>P4: Power Supply (9 - 32 VDC) P4: [R] = External Reset</p> |

| Operating Environment | Symbol | Limits | Units |
|-------------------------------|-----------|-------------------------|----------|
| Supply Voltage | VDD | + 9.0 to + 32.0 | VDC |
| Power Requirements | @ 9.0V | 0.5 max. | A (peak) |
| Operating temperature | TA | -20° to + 60° | °C |
| Casing | IEC 529 | IP50 | |
| Vibration / Shock | | EN60068-2-6 / 2-27 | |
| RS485 Interface Specification | | 1/4 Unit Load | |
| RS485 Bus Termination | | 390R / 390R / 220R | Ohm |
| RS485 Interface Isolation | | 3000 | V |
| ESD protection | IEC 61000 | +/-15kV HBM, +/-8kV IEC | kV |

| Product Documentation | Doc Nr. |
|--------------------------|--|
| Install Manual | XM1600S-E00-100 |
| AT Command Manual | XM1600S-A00-100 |
| Additional Documentation | www.xmodus.ch |

| Contact Information | |
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