



## XM1610S

Industrial GSM/GPRS/EDGE 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 the Motorola G24, 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.
- UART: BR from 300 bps to 230.4 Kbps and Auto BR.
- Class 4 (2W @ 900 MHz)
- Class 1 (1W @ 1800MHz)
- RX sensitivity -106dBm
- GPRS multi slot classes up to Class 10
- GPRS max. BR 85.6 Kbps (CS4).
- EDGE multislot class 10 with max. BR downlink 236.8 Kbps (4 down, 2 up, 5 total).
- 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.
- Automatic Fax group 3 (class 1).
- Embedded TCP/IP and UDP/IP protocol stack.
- Embedded SMTP / POP3 - email services.
- SSL Secure connection.
- 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.

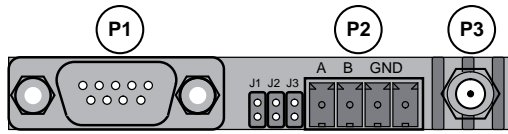
### Specifications:

- 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:

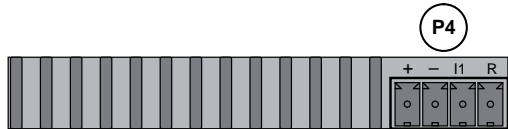
**XM1610S**

## Interface Connections



Top Side Connectors:

- P1: RS-232 Serial Interface
- P2: RS-485 / RS-422 Interface
- J1 - J3: RS-485 Bus Termination
- P3: GSM Antenna Interface



Bottom Side Connectors:

- P4: Power Supply (9 - 32 VDC)
- P4: [R] = External Reset

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	XM1610S-A00-100
Additional Documentation	<a href="http://www.xmodus.ch">www.xmodus.ch</a>

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