

OPERATING INSTRUCTIONS

XM1500S / XM1510S GSM Terminal



2. Technical data

Serial Interface:

Type: Serial V.24 (EIA/TIA-232-E).
Connector: D-SUB 9 female.
Pin designation:

1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

GSM Antenna Interface:

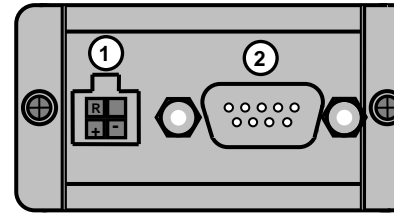
Type: Quadband 850/900/1800 and
1900 Mhz, max. 2W
RF Connector: SMA female
GSM-Antenna: SMA male

3. Connectors / Indicators



voltage!

Make sure that all cables are not live when making the connections! Impending danger by high input voltage or high power supply



1. Power Supply input. (Reset)
2. RS232 Interface

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1. Safety

ESD Protection:

RS232 Interface: +/- 15kV HBM
+/- 8kV IEC 61000-4-2
All other ports: +/- 15kV
IEC 61000-4-2, level 4

Operation:

The proper and safe operation of this device assumes that the operating instructions and the safety warnings given in this document are read carefully.

Electrical connections are observed. The device should only be handled by appropriately trained personnel who are familiar with it and authorised to work in electrical installations.

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Power supply:

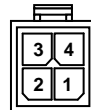


Do not connect the modem to the mains power directly.

Input voltage: 9...32 V_{DC}
Power input: 270mA @ 9V_{DC} (average)
500mA @ 9V_{DC} (peak)
Connector: Molex (43025-0400)
Contacts (430-30-0009)

Molex connector designation:

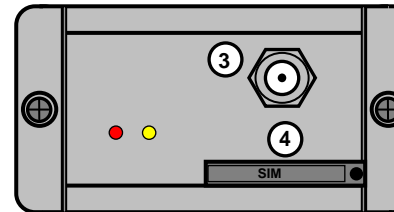
Pin 1: Minus (GND)
Pin 2: Plus (9...32 V_{DC})
Pin 3 : ext. Reset input
Pin 4 : not used.



External Reset Input:

Pin 3 of the Molex connector provides an external Reset signal input. Leave open if not used. To activate the Reset input, simply connect it to ground (minus, pin 1), using an external relay. After releasing the reset input, the modem starts up again.

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3. GSM Antenna Interface.
4. SIM Card Interface
5. Led Red: Power On.
6. Led Yellow: Connect.

SIM Card Interface:

Push loading drawer with lock. Push the unlock button to eject the drawer.

- 3.0V SIM cards supported.
- STK 3.1 supported

4. Operating conditions

Environmental conditions:

Operating temp. -20°C to +60°C
Storage temp. -40°C to +85°C
Rel. humidity: ≤ 75% acc. EN60068-2-30
Protection type: IP50 acc. IEC529
Vibration: acc. EN60068-2-6
Shock : acc. EN60068-2-27

Dimensions: 97 x 63 x 36 mm

Mounting: any direction

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5. Packing list

- Box Modem
- DC Cable
- GSM Antenna
- Serial cable (DSUB9)
- Operating Instructions

6. Accessories

XM-PSU-001	External Power Supply 9V
XM-TSH-35	Top-hat rail mounting kit

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AT Commands and Software Documentation:

The Software and AT-Commands Manual should be downloaded at

<http://www.xmodus.ch/manuals.html>

The XM1500S GSM box modem is based on the G24.Lite module from Motorola. The same module is used in the XM7000S socket modems.

The XM1510S GSM box modem is based on the G24.EDGE module from Motorola. The same module is used in the AL7024E socket modems.



XM1500S-C00-100

EC-Declaration of Conformity

Manufacturer: **xmodus swiss GmbH**
Responsible person: **Andreas Bircher**
Address: **Dachslernstrasse 63**
CH-8048 Zürich
Switzerland
declares that the product:
Type: **GSM Terminal**
Model: **XM1500S / XM1510S**
Intended use: **Telecommunication equipments**

complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directive, if used for its intended use and that the following standards has been applied:

1 Safety (Article 3.1.a of the R&TTE Directive)

applied standard(s) EN 60950-1:2005 Issue 2005
EN 50371:2002 Issue 2002


2 Electromagnetic compatibility (Article 3.1.b of the R&TTE Directive)

applied standard(s) EN 55022 +A1 +A2:2003 Class B Issue 2003
EN 55024 +A1 +A2:2003 Issue 2003

3. Efficient use of the radio frequency spectrum (Article 3.2 of the R&TTE Directive)

applied standard(s) EN 301 511 V.9.0.2 : 2003 Issue 2003
GCF CC Version 3.9.1 Hardware Tests Issue 3.9.1

Zürich, 19. Okt. 2009
(Place and date of the declaration of conformity)


Andreas Bircher
Executive Director
(Name, title and signature)