



XM1640S

Industrial ISDN Terminal Adapter for the European Market. Easy integration of serial devices into a wide range of M2M applications. Advanced connectivity with RS-232, RS-485 and RS-422 interfaces.

Benefits:

- Enables any serial device to send and receive data via the ISDN network.
- Based on the AL5068S socket modem from xmodus, ideally suited for a wide range of M2M applications.
- Exchangeable with GSM, PSTN and LAN modems from xmodus.
- EuroISDN (DSS1), EMC and Safety regulatory approvals. Fully approved in Europe.

Functions:

- Standard Hayes AT-command set, enhanced with proprietary commands..
- UART: BR from 300 bps to 115.200 bps and Auto BR supported.
- Euro-ISDN D-Channel Signaling protocol (CTR3).
- V.110 rate adaption protocol with 4800, 9600 and 19200 bps.
- B-Channel protocols: X.75, V.120, X.31, HDLC and transparent.
- PPP protocol. (RFC 1662 async-sync conversion).
- X.25 / X.31 Case A & B protocols for D- and B-Channel supported. X.3 PAD integrated.

- Firmware updateable.
- Trace Monitor for debugging.
- Advice of Charge. Charging in national currency.
- Programmable EAZ / MSN (Multiple Subscriber Number).

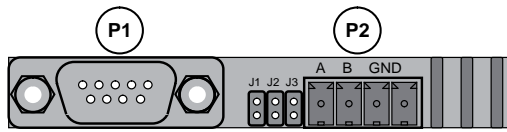
Specifications:

- Compact Size: 120 x 101 x 23 mm.
- Supply: wide input range from 9 - 32 VDC.
- Typical Power use average: 100mA @ 9VDC
- Serial RS-232, RS-485, RS-422 interfaces.
- Approved for Europe (CE). R&TTE directive. Meets specification TBR3, CTR-3.
- Operating temperature: 0° to +70°
- Advanced ESD protection.
- 2 Year warranty.

Ordering:

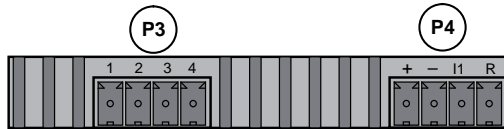
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Interface Connections



Top Side Connectors:

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



Bottom Side Connectors:

P3: ISDN Interface
 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	100	mA
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	XM1640S-E00-100
AT Command Manual	XM1640S-A00-100
Additional Documentation	www.xmodus.ch

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