



## XM1620S

Industrial V.92 / 56K Analog Modem 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 for easy integration.

### Benefits:

- Enables any device to send and receive data via Analog PSTN lines all over the world.
- Based on the AL3094S socket modem from xmodus, ideally suited for a wide range of M2M applications.
- Exchangeable with GSM, ISDN, LAN and WLAN modems from xmodus swiss.
- CTR-21, EMC and Safety regulatory approvals. Full approved in Europe.

### Functions:

- Standard Hayes AT-Command Set and advanced V.250, V.251 Command Set supported.
- ITU-T V.92, V.34, V.32, V.22bis, V.22, V.23, V.21, Bell 212A and Bell 103 modulations supported.
- V.22bis fast connect supported (FastPOS).
- V.42 and MNP error correction. V.44, V.42bis and MNP 5 data compression.
- Telephony / TAM / Voice functions with the advanced V.253 voice commands.
- Full-duplex Voice send / receive (AT+VTR) supported.
- Fax Modem send / receive up to 14.4kbps (V.17, V.29, V.27ter). Fax protocols EIA/TIA 578 Class 1 and T.31 Class 1.0 supported.

### Connectivity:

- Worldwide operation (complies to TBR21, Part 68 and other country requirements)
- UART: BR from 300 bps to 115.2 Kbps and Auto BR supported.
- 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.

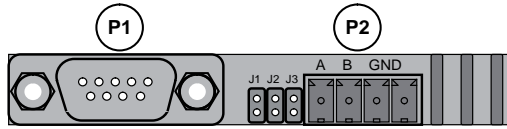
### Specifications:

- Compact Size: 120 x 101 x 23 mm.
- 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 TBR21, ETSI TS 103 021.
- Lightning protection according K.21
- Operating temperature: -20° to +70°
- Advanced ESD protection.
- 2 Year warranty.

Ordering:

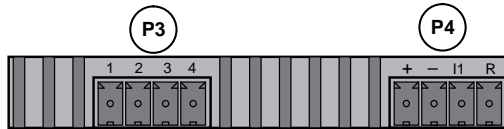
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## Interface Connections



Top Side Connectors:

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



Bottom Side Connectors:

P3: Pins 1 + 2 = PSTN line (a/b)  
 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	XM1620S-E00-100
AT Command Manual	XM1620S-A00-100
Additional Documentation	<a href="http://www.xmodus.ch">www.xmodus.ch</a>

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