



XM1710E

Xmodus presents a new and compact 3.5G GSM/GPRS Ethernet Router based on Embedded Linux. This Ethernet Router covers a wide range of M2M applications, such as control systems, vending machines, remote diagnostics and much more.

Benefits:

- With an extended temperature range and robust design, the XM1710E Ethernet Router is designed to stand up to the harsh industrial environments found in telematics and AMR deployments.
- Based on Telit HE910 module, it features an industry leading RF performance, ensuring reliable network connectivity for real-time communication.
- The XM1710E Ethernet Router is the ideal choice for any M2M segment, demanding reliable host devices like AMR, telematics, security and ePOS.

GSM Engine:

- Telit HE910 UMTS / HSPA+ Engine.
- 5 bands 850/900/1800/1900/2100 MHz.
- HSPA+ data up to 21.0 Mbps down and 5.76 Mbps up.
- Quad band GPRS and EDGE class 33
- HSPA: uplink up to 5.76Mbps, downlink up to 21 Mbps
- UMTS: up/downlink up to 384 kbps.
- EDGE: uplink up to 236 kbps, downlink to 296 kbps
- 3GPP release 7 compliant.
- RX sensitivity -108dBm
- Coding scheme 1 to 4, PBCCH support.

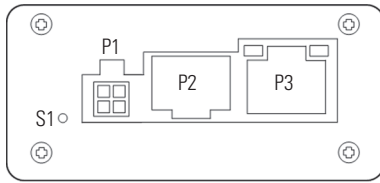
Router functions:

- OpenWrt based embedded router software.
- Web interface for router configuration (LuCI).
- Automatic GPRS coverage and router start.
- DHCP, NAT, DNS, FTP, HTTP, NTP, SSH Protocols.
- Firewall and static routes.
- OpenVPN supported.
- Real time clock with battery backup.
- Triggered up function with ping server.
- Firmware update through web page or ftp.
- Current Linux Kernel Version is 3.8.13.
- GSM Signal monitoring.
- Easy setup of LAN and WAN interfaces.
- Serial port for console and applications.

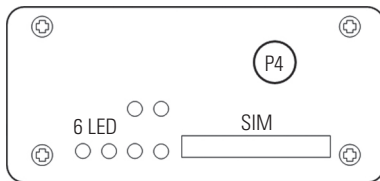
Specifications:

- Compact Size: 110 x 65 x 30 mm.
- Supply: wide input range from 9 - 32 VDC.
- Typical Power use average: 400mA @ 9VDC
- Serial console interface with RJ45 connector.
- 10/100base-T interface with RJ45 connector.
- SIM card reader interface.
- SMA (female) Antenna Interface.
- Operating temperature: -20° to +75° C.

Interface Connections



| | |
|----|---------------------------------|
| P1 | Power Supply (9 - 32 VDC) |
| P2 | Serial Interface (RJ45) |
| P3 | 10/100base-T Ethernet Interface |
| S1 | Reset (1s ON) |
| S1 | Reset to default state (5s ON) |



| | | |
|-----|---------------------------------|-----------------|
| P4 | RF Interface (SMA) | |
| SIM | SIM card reader (1.8V / 3V SIM) | |
| LED | Power | GSM activity |
| LED | GPRS link active | GPRS link error |
| LED | GSM signal monit. | User selectable |

Operating Environment

| | | | |
|-----------------------------|-----------|-------------------------|----------|
| Supply Voltage | VDC | + 9.0 to + 32.0 | VDC |
| Power Requirements | @ 9.0V | 0.8 | A (peak) |
| Operating temperature | TA | -20° to + 75° | °C |
| Protection | IEC 529 | IP50 | |
| Vibration / Shock | | EN60068-2-6 / 2-27 | |
| Dimensions | mm | 110 x 65 x 30 | |
| ESD protection (RS232 & IO) | IEC 61000 | +/-15kV HBM, +/-8kV IEC | kV |

Accessories

| | |
|-------------|---|
| XM-TSH-35/4 | Top-hat rail mounting kit (35mm) |
| XM-PSU-004 | External Power Supply (wall adapter) 9VDC / 0.56A |

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|------------------------|--|
| Product Documentation | Doc Nr. |
| Hardware Manual | XM1700E-E00-102 |
| Users Manual | XM1700E-A00-103 |
| Additional Information | www.xmodus.ch |

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