MINE X_N

X18 DIN

Gigabit Ethernet DIN Rail Router

Introducing our state-of-the-art industrial router, equipped with advanced features to revolutionize your network connectivity. With a Category 12 LTE module, Wi-Fi capabilities, and three Gigabit Ethernet ports, this router is designed to provide unparalleled performance and reliability in industrial environments.

Using Gigabit Ethernet in an industrial router offers numerous product highlights that enhance network performance and reliability. With Gigabit Ethernet, industrial routers can provide lightning-fast data transfer speeds, allowing seamless communication and rapid data exchange between connected devices. This high-speed connectivity is particularly advantageous in industrial settings where large volumes of data need to be transmitted quickly for real-time monitoring, control systems, and automation processes.

Base System

CPU	1.3GHz Dual Core ARM
Memory	1 GB
Extension	2 x Mini-PCIe 2 x Shields
Power	12 – 48 VDC
SIM	2x Micro SIM

Network

Ethernet	2 x Gigabit Ethernet 1 x SFP
Mobile	1 x LTE Advanced
GPS/GNSS	1 x Receiver

Environment

Dimensions	35 x 132 x 130 (W x H x D)
Temp	-25 °C to +80 °C
Ingress	IP40
MTBF	35.4 years (310,000 hours)

Power

Voltage	12 VDC, 24 VDC, 48 VDC
Tolerance	15%
Avg/Max	6 W, 15W

USB

Interface	USB 2.0
Mode	RS232 adapter, RS-485 adapter, CAN adapter, Ethernet adapter

Serial / Fieldbus

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Interface	1
Standards	RS-232/485
Modes	Modem, Pair Connection, Reverse Telnet, RFC2217, TCP Client, TCP Server, UDP, Console

Software

Management (CLI, WEB, SNMP, Telnet, SSH)
Routing (RIP, OSPF, BGP, Virtual router)
Multicast (IGMP, PIM)
Advanced (GRE, IP-IP, VxLAN, L2TPv3)
Network Services (DHCP, QOS, HotSpot, DNS)
NAT (static, SNAT, DNAT)
VPN (IPSec, OpenVPN)
Automation (Scripting, Auto-Installation)
L3 VPN, pseudo-wires
Advanced Features (GNSS)
Advanced Features (OpenVPN, DynDNS)
Voice Gateway
CAN Bus (FMS)

The Category 12 LTE module ensures lightning-fast cellular connectivity, allowing you to stay connected even in remote areas where wired connections may be unavailable. With support for high data transfer rates, this router enables seamless communication and real-time data exchange, empowering you to monitor and control critical processes easily.

Our router boasts three Gigabit Ethernet ports with a dedicated SFP port. These high-speed ports deliver exceptional performance, allowing for rapid data transfer and efficient integration with existing wired infrastructure. With Gigabit Ethernet, you can ensure reliable and stable connections for your industrial devices, minimising downtime and maximising productivity.

One of the primary benefits of using an SFP fibre module is its electrical isolation, which eliminates the risk of electrical interference. This isolation is especially crucial in environments where electromagnetic interference (EMI) or radio frequency interference (RFI) is expected, such as industrial settings or areas with high-voltage equipment. By using fibre optics, you can prevent signal degradation and maintain reliable data transmission.

Moreover, this industrial router is built to withstand the harsh conditions of industrial environments. Its ruggedised design and industrial-grade components guarantee durability and longevity, making it ideal for deployment in challenging settings.
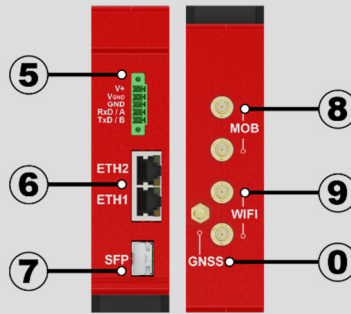
1 DIN-Rail Mount
2 Micro SD Card Reader
3 Dual Micro SIM
4 USB Type A
5 Power / IO Terminal Block
6 Dual Gigabit Ethernet
7 SFP Gigabit Port
8 WWAN LTE Primary / Secondary (SMA)
9 WLAN Dual-band Wi-Fi (SMA)
0 Positioning GNSS GPS (SMA)

Interfaces

Mobile / Cellular

Interfaces	1
Modem	Sierra Wireless, Telit
Technology	3G, 4G-LTE, 5G
Network	Up to LTE Cat. 18 3GPP Rel. 12

RF Antenna Cross Switch Module

Interfaces	1
Technology	DPDT
Frequency	100 MHz to 6 GHz

Wi-Fi / WLAN

Interfaces	1
Standards	802.11a/b/g/n/ac (Wi-Fi 5)
Bands	Dual-band 2.4 / 5 GHz
Data rate	144 Mbps 2.4 GHz 300 Mbps 5 GHz
MIMO Mode	2.4 GHz 2x2 MIMO 5 GHz MIMO
Modes	Client, Mesh, Access Point, Bridge

GPS/GNSS

Receiver	BeiDou, Galileo, GLONASS, GPS/QZSS
Sensitivity	Up to -167 dBm
Accuracy	Up to 2.5 m CEP
Services	Standalone, Assisted GPS, Data server with JSON, NMEA data stream
Antenna	Active, Passive

RF Connectors

Mobile	SMA Female
WIFI	SMA Female
GPS/GNSS	SMA Female

Modems

MC7430

Technology	LTE - cat 6
4G bands	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41
3G bands	B1, B5, B6, B8, B9, B19

LN920A12-WW

Technology	LTE - cat 12
4G bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B48, B66, B71
3G bands	B1, B2, B19, B8, B4, B5,B9

Ordering

MX-18-D-Lc-G	X18 DIN - 2xGe + 1xLTE (MC7430) + GNSS
MX-18-D-Lp-G	X18 DIN - 2xGe + 1xLTE (LN920A12-WW) + GNSS
MX-18-D-LcWac-G	X18 DIN - 2xGe + 1xLTE (MC7430) + WLANac + GNSS
MX-18-D-LpWac-G	X18 DIN - 2xGe + 1xLTE (LN920A12-WW) + WLANac + GNSS
MX-18-ANT-RF-SWITCH	Antenna redundancy module - Dual-pole double-throw switch (DPDT)