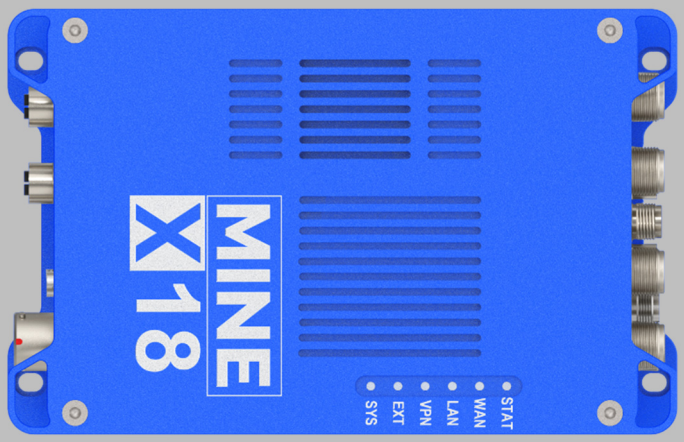
MINEXN



X18 PRO MAX

Advanced LTE WiFi Mining Router

Introducing the Industrial Mine Communication Router, a powerful and reliable networking solution designed specifically for mining environments. With six gigabit Ethernet ports, 4G LTE and WiFi connectivity, this router provides a fast and secure way to connect your mining equipment, machinery, and devices to your network.

The router's six gigabit Ethernet ports allow for high-speed wired connections to your equipment and devices, ensuring fast and stable data transfer. This is particularly important in mining operations where data is critical to ensure efficient and safe operation. In addition to wired connectivity, the router also features 4G LTE and WiFi connectivity, allowing you to connect wirelessly to devices such as tablets, smartphones, and laptops.

Base System

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

Network

Ethernet	6 x Gigabit Ethernet
Mobile	1 x LTE Advanced
WiFi	1 x 802.11a/b/g/n/ac (WiFi 5)
GPS/GNSS	1 x Receiver

Environment

Dimensions	139 x 77 x 219 (W x H x D)
Temp	-25 °C to +80 °C
Ingress	IP66, IP67, IP68
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

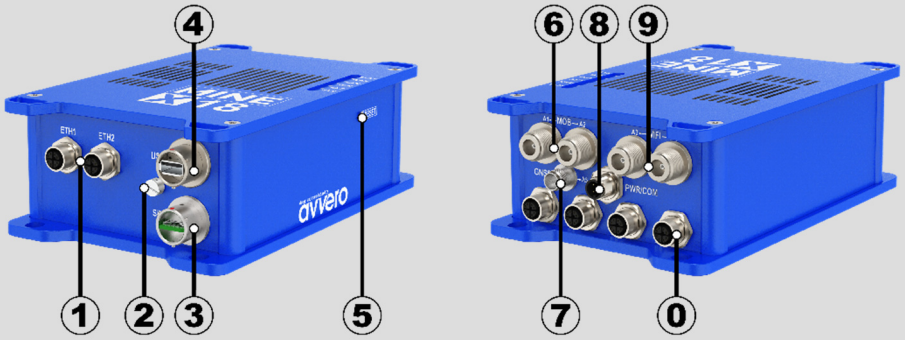
Interface	1
Standards	RS-232/485
Modes	Modem, Pair Connection, Reverse Telnet, RFC2217, TCP Client, TCP Server, UDP, Console

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)

This allows you to monitor and manage your mining operations from anywhere on-site, increasing productivity and efficiency. The Industrial Mine Communication Router is designed to withstand harsh mining environments, with a rugged and durable casing that can withstand extreme temperatures, vibrations, and shocks. It is also easy to install and configure, with a user-friendly web interface allowing quick and simple setup.

Overall, the Industrial Mine Communication Router, with its six gigabit Ethernet ports, 4G LTE and WiFi connectivity, and rugged design, is the perfect networking solution for mining operations looking for a reliable, fast, and secure way to connect their equipment and devices.



1 Gigabit Ethernet (M12 X-coded female)
2 Vent
3 Micro SIM
4 USB Type A
5 Reset Button
6 WWAN LTE Primary / Secondary (N-Type)
7 Positioning GNSS GPS (TNC)
8 Power / IO (M12 5-pin A-coded female)
9 WLAN WiFi (N-Type)
0 Gigabit Ethernet (M12 X-coded female)

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

WiFi / WLAN

Interfaces	1
Standards	802.11a/b/g/n/ac (WiFi 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	N-Type Female
WIFI	N-Type Female
GPS/GNSS	N-Type 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-P-LcW-G	X18 Pro Max - 6xGe + 1xLTE (MC7430) + 1xWLAN + GNSS
MX-18-P-LpW-G	X18 Pro Max - 6xGe + 1xLTE (LN920A12-WW) + 1xWLAN + GNSS
MX-18-ANT-RF-SWITCH	Antenna redundancy module - Dual-pole double-throw switch (DPDT)