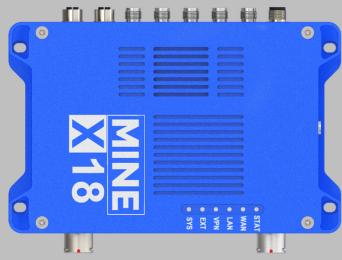


MTBF



35.4 years (310,000 hours)

X18 MINIS

Advanced LTE WiFi Mining Router

Introducing the Industrial-Grade Mobile Router, the ultimate networking solution for mining operations that require high reliability and uptime. With advanced features such as ruggedised design, redundant power supplies, and mobile connectivity, this router provides fast and secure connectivity for all your critical mining equipment and devices.

Engineered for harsh mining environments, with a durable casing that withstands extreme temperatures, vibrations, and shocks. It ensures the router remains operational and reliable even in the most demanding conditions. The Industrial-Grade mobile router also features redundant power supplies, ensuring continuous operation in case of a power outage or equipment failure. It is essential in mining operations where downtime can result in significant financial losses.

Base System		Power		Software
CPU Memory	1.3GHz Dual Core ARM 1 GB 2 x Mini-PCIe	Voltage Tolerance Avg/Max	12 VDC, 24 VDC, 48 VDC 15% 6 W, 15W	Management (CLI, WEB, SNMP, Telnet, SSH) Routing (RIP, OSPF, BGP, Virtual router) Multicast (IGMP, PIM)
Extension Power	2 x Shields 12 – 48 VDC	USB		Advanced (GRE, IP-IP, VxLAN, L2TPv3) Network Services (DHCP, QOS, HotSpot, DNS) NAT (static, SNAT, DNAT)
SIM	1x Micro SIM 1x Embedded	Interface	USB 2.0 RS232 adapter, RS-485	
Network		Mode	adapter, CAN adapter, Ethernet adapter	VPN (IPSec, OpenVPN) Automation (Scripting, Auto-Installation) L3 VPN, pseudo-wires Advanced Features (GNSS)
Ethernet Mobile	2 x Gigabit Ethernet 1 x LTE Advanced	Serial / Fieldbus		
WiFi	1 x 802.11a/b/g/n/ac (WiFi 5)	Interface Standards	1 RS-232/485	Advanced Features (OpenVPN, DynDNS) Voice Gateway
GPS/GNSS 1 x Receiver Environment		Modes Modem, Pair Connection, Reverse Telnet, RFC2217, TCP Client, TCP Server,	CAN Bus (FMS)	
Dimensions Temp Ingress	139 x 77 x 219 (W x H x D) -25 °C to +80 °C IP66, IP67, IP68		UDP, Console	

In addition, the router's mobile connectivity provides a secure and reliable way to connect your critical mining equipment and devices to your network. This is particularly useful in remote mining sites where wired connectivity may not be available or feasible. The Industrial-Grade mobile router also includes advanced security features such as VPN, firewall, and intrusion prevention, ensuring your network is protected against cyber threats and attacks.

Easy to install and configure, the router has a user-friendly web interface that allows quick and simple setup. It also includes advanced management tools, such as remote monitoring and diagnostics, that allow you to monitor and manage your network performance in real time. Overall, the Industrial-Grade mobile Router is the perfect networking solution for mining operations that require high reliability and uptime. Its advanced features and ruggedised design make it a valuable investment for any mining operation looking to enhance its network performance and security while minimising downtime and maximising productivity.





Interfaces

Mobile / Cellular

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

RF Antenna Cross Switch Module

Interfaces	1
Technology	DPDT
Frequency	100 MHz to 6 GHz

WiFi / WLAN

1
802.11a/b/g/n/ac (WiFi 5)
Dual-band 2.4 / 5 GHz
144 Mbps 2.4 GHz
300 Mbps 5 GHz
2.4 GHz 2x2 MIMO
5 GHz MIMO
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	
	Standalone, Assisted GPS,	
Services	Data server with JSON,	
	NMEA data stream	
Antenna	Active, Passive	
RF Connectors		

Mobile	TNC Female
WIFI	TNC Female
GPS/GNSS	TNC Female

Modems

MC7430

LN920A12-WW

Technology	LTE - cat 6	Technology	LTE - cat 12
4G bands	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	4G bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28,
3G bands	B1, B5, B6, B8, B9, B19	+0 builds	B29, B30, B38, B39, B40, B41, B42, B43, B48, B66, B71
		3G bands	B1, B2, B19, B8, B4, B5,B9

Ordering

MX-18-M-S-LcW-G	X18 Mini S - 2xGe + 1xLTE (MC7430) + 1xWLAN + GNSS
MX-18-M-S-LpW-G	X18
MX-18-ANT-RF-SWITCH	Antenna redundancy module - Dual-pole double-throw switch (DPDT)