



X18 MINI

Advanced Gigabit Ethernet Router

Introducing the LTE Mobile Router for Mining Operations, the ultimate networking solution for mines that require reliable connectivity in remote locations. With advanced features such as LTE mobile connectivity, ruggedised design, and wide range power DC supply, this router provides fast and secure connectivity for all your critical mining equipment and devices.

Designed to form the centrepiece of your communications infrastructure, providing seamless connectivity for all aspects of mining. Equipped with industry-leading LTE technology, Mine X hardware provides ultra-reliable high-speed/high-throughput data communications across all applications, including autonomous vehicles, excavation, processing and more. Built in Australia to comply with national mining standards, the Mine X is a powerful and robust industrial router designed for use in the most severe and challenging environments, including but not limited to extreme temperature, dust, vibration, and pressure water jets.

Base System		Power		Software
CPU	1.3GHz Dual Core ARM	Voltage	12 VDC, 24 VDC, 48 VDC	Management (CLI, WEB, SNMP, Tel
Memory	1 GB	Tolerance	15%	Routing (RIP, OSPF, BGP, Virtual router Multicast (IGMP, PIM) Advanced (GRE, IP-IP, VxLAN, L2TPv3)
Extension	2 x Mini-PCle 2 x Shields	Avg/Max	6 W, 15W	
Power	12 – 48 VDC	USB		Network Services (DHCP, QOS, HotS
SIM	1x Micro SIM	Interface	USB 2.0	DNS)
51101	1x Embedded		RS232 adapter, RS-485	NAT (static, SNAT, DNAT)
letwork		Mode	adapter, CAN adapter, Ethernet adapter	VPN (IPSec, OpenVPN) Automation (Scripting, Auto-Installa L3 VPN, pseudo-wires
Ethernet	hernet 2 x Gigabit Ethernet			
Mobile	1 x LTE Advanced	Serial / Field	bus	Advanced Features (GNSS) Advanced Features (OpenVPN, DynDN
GPS/GNSS	1 x Receiver	Interface	1	
Environment		Standards	RS-232/485	Voice Gateway CAN Bus (FMS)
			Modem, Pair Connection,	
Dimensions	139 x 48 x 219 (W x H x D)	Madac	Reverse Telnet, RFC2217,	
Temp	-25 °C to +80 °C	Modes	TCP Client, TCP Server,	
Ingress	IP66, IP67, IP68		UDP, Console	
MTBF	35.4 years (310,000 hours)			

This small form factor router packs a powerful punch, delivering high-speed LTE connectivity in even the most rugged environments. The platform is built to withstand harsh mining conditions, and this router boasts a durable, rugged design that can withstand extreme temperatures, moisture and dust. It is specifically designed and built for mining applications, ensuring reliable connectivity in remote locations, even when traditional wired connections are unavailable.

Our LTE Mining Router is easy to install and set up, with a simple and intuitive user interface that allows for quick configuration and deployment. It has advanced security features to protect your network and data, including firewall, VPN, and authentication protocols. This router supports multiple LTE bands, ensuring compatibility with various carriers and networks. It also features built-in redundancy, with failover capabilities to ensure uninterrupted connectivity, even in network or equipment failures.

The LTE Mining Router is a robust and reliable solution for critical mining equipment. Its rugged design, advanced security features, and high-speed LTE connectivity make it the perfect choice for mining applications that require reliable and secure connectivity.





Interfaces

Interfaces

Technology

Modem

Network

Mobile / Cellular

GPS/GNSS

1 Sierra Wireless, Telit	Receiver	BeiDou, Galileo, GLONASS, GPS/QZSS	Interfaces Technology	1 DPDT
3G, 4G-LTE, 5G	Sensitivity	Up to -167 dBm	Frequency	100 MHz to 6 GHz
Up to LTE Cat. 18 3GPP Rel. 12	Accuracy	Up to 2.5 m CEP Standalone, Assisted GPS,	RF Connectors	5
	Services	Data server with JSON, NMEA data stream	Mobile GPS/GNSS	N-Type Female TNC Female
	Antenna	Active, Passive		

RF Antenna Cross Switch Module

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,		B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18,
3G bands	B40, B41 B1, B5, B6, B8, B9, B19	4G bands	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-M-Lc-G	X18 Mini - 2xGe + 1xLTE (MC7430) + GNSS
MX-18-M-Lp-G	X18 Mini - 2xGe + 1xLTE (LN920A12-WW) + GNSS
MX-18-ANT-RF-SWITCH	Antenna redundancy module - Dual-pole double-throw switch (DPDT)