XM250

4G Lte Industrial router

Product introduction:

XM250 Series Mobile Broadband Router is an IoT wireless communication router. It provides convenient and fast network transmission function to uses with public 4G (TDD-LTE/FDD-LTE), 3G (WCDMA/HSUPA/HSPA+, EV-DO) and other mobile broadband networks.

This series of products are installed with high-performance industrial-grade 32-bit communication processors, with an embedded real-time operating system as the software support platform, to provide wireless routers to users with safe, high-speed, stable and reliable 3G/4G wireless routing network, providing 1 LAN port, 1 WAN port, 485/232 and WIFI interfaces.

This series of products has been widely used in finance, postal services, smart grid, intelligent transportation, environmental protection monitoring, fire control, security monitoring, water monitoring, public safety, advertising, industrial control, earthquake monitoring, weather monitoring, instrument monitoring and other industries.

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Hardware

Model	XM250
Chipset	QCA9531
Standard	IEEE802.11b/g/n
Bandwidth	150Mbps/300Mbps
Memory	128Mb
Flash	128Mb
CPU	560MHz
VPN	PPTP/L2TP/IPSec/OPENVPN
Power	DC 12V/1.5A
Working temperature	-30~+75°C
Storage temperature	-40~+85°C
Relative humidity	< 95% non-condensing
Cover	Aluminum
Dimensions	153×103×25.5mm
Weight	About 550g

Wireless parameters

Wireless Module	Industrial Grade Wireless Module
Standards and Bands	FDD-LTE（Band1、2、4、5、7、8、12&17） TDD-LTE（Band38、Band39、Band40、Band41） HSPA（850/900/1900/2100MHz）/ GSM850/900/1800/1900MHz EV-DO（800MHz）、TD-Scdma（Band34、Band39）
Theoretical bandwidth	FDD/TDD LTE:50/100Mbps |HSPA+:5.76/21Mbps |EVDO：1.8/3.1Mbps

Transmission power	16-17dBm（11g），18-20dBm（11b）15dBm (11n)
Acceptance sensitivity	<-72dBm@54Mpbs
Security Encryption	Support WEP, WPA, WPA2 and other encryption methods, WPS function is optiona
Transmission power	16-17dBm（11g），18-20dBm（11b）15dBm (11n)
Acceptance sensitivity	<-72dBm@54Mpbs

Interface Type

LAN	1 Ethernet interface (RJ45 socket), adaptive MDI/MDIX
WAN	1 WAN port, adaptive MDI/MDIX
Industrial	1 communication RS485/RS232 interface, suitable for the acquisition device with its own RS485/232 interface
Antenna	2 standard SMA antenna interfaces (2 x 4G, AUX/GPS and WIFI), characteristic impedance 50 Ω
SIM/UIM	Push-in SIM/UIM card slot, self-locking protection that card does not fall. 1.8V/3V automatic detection
Power	7.5V~32V (standard DC12V/1.5A)
Reset button	Use this button to reset the Router's parameter configuration to factory default

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XM250 Series interface sketch

Front panel

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XM250 Series interface sketch

Back panel

Product Selection List

XM250	3Gver	4Gver	Single-mode dual card	Load Balanced Dual-Mode Dual-Card	GPS ver
WAN	●	●	●	●	●
LAN1-4	●	●	●	●	●
802.11n WIFI	●	●	●	●	●
HSPA+	●	●	●	●	●
EV-DO	○	○	○	●	○
TD-Scdma	○	●	●	●	●
FDD-LTE	-	●	●	●	●
GPS	○	○	○	○	○
RS232	●	●	●	●	-
RS485	○	○	○	○	-
Single Card	●	●	-	-	○
Double Card	○	○	●	●	○
storage（2GB~32GB）	○	○	○	○	○

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Attachment

Single-mode dual card version

The XM250 3G/4G router supports the single-mode dual-card version which means the product is applicable to the same network standard and is operated by multiple operators, thus achieving dual-link backup.

Load Balanced Dual-Mode Dual-Card Version

The XM250 3G/4G router supports the dual-mode dual-card version which means the product is applicable to areas where different network standards exist at the same time. Different operators can operate different network standards to achieve network load balancing. Compared to single-mode dual-card, the product achieves bandwidth superposition, two cards are online at the same time, and the network speed doubles.

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