

MX8012C Industrial IOT On-Vehicle Seamless-Roaming Dual-band WiFi 5 Communication Module

Description

Industrial dual-band WiFi 5 communication module provides professional wireless communication for warehousing logistics, manufacturing, electrical, transportation and other industries.

Features

-High throughput

Support 802.11ac & 2x2 MIMO with Max. wireless rate up to 1.7Gbps and wired port 1Gbps.

-Enhanced wireless roaming

In mobile carrier scenarios, such as AGV navigation vehicles and handling robots, establish a backup pre-association with potential roaming destination APs outside the communication link.

When roaming is triggered, the standby link will be converted into a communication link to achieve fast and seamless roaming, effectively guarantee the real-time performance of data transmission, and improve the reliability of wireless network communication.

-High reliability

The self-developed firmware system ensures the long-time stable operation.



Specification

Hardware	
Processor	IPQ4029
Memory	256MB DDR3L, 32MB Flash
Dimensions	110x92x32mm
Frequency	5GHz Dual-band
Interface	1x 10/100/1000Mbps
Max. transmit power consumption (per channel)	5G 0: 24dBm@VHT20 MCS0 5G 1: 24dBm@VHT20 MCS0
MIMO	5G 0: 2x2 867Mbps 5G 1: 2x2 867Mbps
Button	1x RESET
Antenna gain	5dBi

Antenna beam width	omnidirectional 360°
power supply voltage	12~48V (DC JACK or Phoenix terminal)
Installation	Wall-mount
Temperature	Operation: -20°~55°; Storage: -40°~85°
Operation Humidity	5%~90%RH non-condensing
Protection	IP41
Software	
protocols	802.11a/n/ac
mode	client
Security Configuration	WPA2-PSK
network mode	bridge
Configuration Management	Web Configuration
Other Features	Enhanced roaming, automatic frequency selection

Radio Frequency Parameters

	TRANSMIT POWER (PER CHAIN)			RECEIVE SENSITIVITY		
	RATE	POWER	TOLERANCE	RATE	POWER	TOLERANCE
5G 0	VHT20MCS0	24dBm	+/- 2dBm	VHT20MCS0	-90dBm	+/- 2dBm
	VHT20 MCS8	18dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	VHT40MCS0	23dBm	+/- 2dBm	VHT40MCS0	-87dBm	+/- 2dBm
	VHT40 MCS9	18dBm	+/- 2dBm	VHT40 MCS9	-62dBm	+/- 2dBm
	VHT80MCS0	23dBm	+/- 2dBm	VHT80MCS0	-84dBm	+/- 2dBm
	VHT80 MCS9	18dBm	+/- 2dBm	VHT80 MCS9	-59dBm	+/- 2dBm
5G 1	VHT20MCS0	24dBm	+/- 2dBm	VHT20MCS0	-90dBm	+/- 2dBm
	VHT20 MCS8	18dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	VHT40MCS0	23dBm	+/- 2dBm	VHT40MCS0	-87dBm	+/- 2dBm
	VHT40 MCS9	18dBm	+/- 2dBm	VHT40 MCS9	-62dBm	+/- 2dBm
	VHT80MCS0	23dBm	+/- 2dBm	VHT80MCS0	-84dBm	+/- 2dBm
	VHT80 MCS9	18dBm	+/- 2dBm	VHT80 MCS9	-59dBm	+/- 2dBm