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Teltonika RUTX12 - 3G/4G CAT6 Dual Module Router with WiFi / GPS / Bluetooth

SKU
M2M-TE-00017
MPN
RUTX12
Barcode
4779027312743

Description

RUTX12 is the first router in its class to offer twin 4G modem modules, allowing concurrent connectivity of two mobile networks. This dual connectivity mode provides 2+0 style failover protection and load balancing features. RUTX12 is an LTE-Advanced modem providing Cat 6 data rates up to 600 Mb/s via 2C CA in load-balancing mode between the two LTE chipsets.

The router's two modem chips each have two antenna connectors, providing four 4G antenna connections. This allows aiming of two separate 2x2 MIMO external antennas to two different towers.

RUTX12 provides high speed local WiFi connectivity, operating as a Wave-2 802.11ac Dual Band WiFi access point with speeds up to 867 Mb/s. The modem also supports USB along with Bluetooth LE for simplified industrial IO with its own dedicated antenna connection.

The modem has a built in GNSS / GPS module, allowing customised tracking to be installed on the modem, along with remote management through ...

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This device is developed from a beefed up Quad Core ARM Cortex A7 717 MHz CPU and 256 MB DDR3 RAM SBC and uses two integrated Quectel EP06-E Category 6 LTE-Advanced modules.

RUTX12 uses a fully open source and customisable OpenWRT Linux OS with a Busybox shell. Using only a portion of its 256 MB flash memory allows additional daemons and custom services to be run to meet your specific application.

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Teltonika

In 21 years we have launched to mass production over 100 different devices in IoT, Networking, Connected vehicles, Asset and personal Tracking areas. That makes over 8.600.000 million devices sold worldwide in over 150 different countries. Although these numbers are impressive, Teltonika is more than that – we are about innovating, inspiring, connecting, educating and reliable partnership.

By ...

Network Interfaces

Wireless Interfaces
Cellular Module
Technologies
3G UMTS, 4G LTE
Failover
Automatic
Chipset/Module
Quectel EP06

4G LTE Specifications

MIMO
2x2 MIMO
LTE Bands
B1
,
B3
,
B5
,
B7
,
B8
,
B20
,
B32
,
B38
,
B40
,
B41
DL Category
Cat 6
UL Category
Cat 5
Carrier Aggregation
2C CA
SIM Cards

Quantity	SIM Type

2	Standard SIM (2FF)

Modem RF Connectors

RF Connector Function	Quantity	RF Interface
Cellular	2	SMA Female

Bluetooth Interface

Protocol

Bluetooth 4.0

Device RF Interface

RF Connector Function	Quantity	RF Interface
Bluetooth	1	RP-SMA Female

GNSS Module

Technologies

BeiDou, Galileo, GLONASS, GPS, QZSS

Device RF Interface

RF Connector Function	Quantity	RF Interface
GNSS	1	SMA Female

WiFi Module

No. Radios

2

Max. Throughput

867 Mb/s

Max. Clients

100

No. Antennas

2

WiFi Radios

Radio Name (Optional)	WiFi Standard	Frequency Bands	MIMO
Radio 2.4 GHz	802.11n	2.4 GHz	2x2 MIMO
Radio 5 GHz	802.11ac Wave 2	5 GHz	2x2 MIMO

WiFi RF Connectors

RF Connector Function	Quantity	RF Interface	Notes
WiFi	2	RP-SMA Female	Both 2.4 and 5 GHz Radios

Ethernet Interfaces

Interface	Quantity	Function	Signalling
RJ45 Copper	4	LAN	100BASE-T, 1000BASE-T
RJ45 Copper	1	WAN	100BASE-T, 1000BASE-T

Physical Specification

Subtype
Cellular Modem
Min. Operating Temperature
-40 °C
Max. Operating Temperature
75 °C
Dimensions
132 × 95 × 44 mm
Weight
540 g
Materials
Aluminium
Mounting
Teltonika Modem Screw Pattern
Compliance/Certifications
RCM
IO Interfaces

IO Connector	Quantity
USB-A 2.0	1

Power Specifications
Max. Consumption
22 W
Typical Consumption
4 W
Power Interface

Power Connector	Min. Input Voltage	Max. Input Voltage	Voltage Type
Terminal Block, 4-Position	9 V	50 V	DC

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