



JRC Tactical LTE Box

JRL-174



JRL-174 is an All-In-One portable LTE box specially designed for Mission critical operation such as Public Safety, Defense, Utility, Oil and Gas and Mining. It is Military grade and has a highly ruggedized mechanical design (waterproof and dustproof). It was designed for simple and quick operation, with a start procedure as simple as pressing the power button.

■ Key Features

- ▶ High power Radio capacity 2 x 20 W
- ▶ Compact and light weight vehicle mount design
- ▶ Portable – easily carried out from the vehicle
- ▶ Autonomous - allows independent operation without any use of public network
- ▶ Multi bubble – allow 'box to box' communication using a single frequency band for coverage extension and multi user groups communication
- ▶ Advanced application - optional Mission Critical PTT INSIGHT-MCX for multimedia communication

■ All-in-one

JRC Tactical LTE box is an all-in-one portable LTE solution.

It starts in less than 5 minutes in a silent start mode. It can be used with JRC INSIGHT-MCX PTT application or any 3rd party solution.

■ PTT App

PTT application can be installed in the LTE box, which enables users to do group call, including voice, video and data communication. Localization can also be provided. And it runs on rugged smartphones.

■ Bubble-to-bubble

When 2 LTE boxes overlap each other, they automatically connect to each other to create a virtual network. All devices can talk together inside the virtual bubble. Multiples hops can be created. Requires optional MBT module.

■ Vehicle Mounted

The LTE box is ideal for vehicle mounted solution. It can be powered by the battery of the vehicle and be mounted in a rack or in a car boot.

*Optional



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General Specification

Item	Description
Model	JRL-174(FDD)
Form Factor	Metal Chassis
Dimensions (L x W x D)	499mm x 420mm x 115mm (w/o mounting ear) 551.7mm x 428.7mm x 122.5mm (w/ mounting ear)
Weight	16kg
Input Power	DC: +12V~ +33V (typical +24V) ※ Optional +12V to +20V Internal module: MIL-STD-1275E
LTE Frequency	FDD: Band 28 (For other bands, check with JRC)
Bandwidth	5/10/20MHz
Transmit Power	2 x 20W
Number of Antenna	2 antennas (2 x 2 MIMO)
Max Connected / Active Users	128 users
Max Throughput	150Mbps Downlink, 50Mbps Uplink (FDD 20MHz BW)
Synchronization	GPS
Management Functions	Remote connection and control (Using backhaul interface)
	SNMP, TR-069 support
	System status indications
Security Functions	Selective roaming partners (Based on PLMN-ID)
	AKA based authentication (Key generation and distribution)
	Standard LTE AES-128 encryption
	SIM info encryption
Water/Dust Proof	UE to device bundling un-authorized users report
	IP67 (IEC)
	Operating Temperature (501.7 and 502.7)
	Preservation Temperature (501.7 and 502.7)
MIL-STD-810H	Humidity (507.6)
	Mechanical Shock / Vibration Proof (516.8)
	Life phase: Transportation and operation
	Plat home: Ground
Applications	Category: Ground vehicle
	JRC INSIGHT-MCX (Optional)
	- 3GPP MCX Release 15 Compliant
	- MCPTT, MCVideo and MCData
Certification	- Integrated Map Server, Emergency Alert on Map
	CE



Japan Radio Co., Ltd.

Japan Radio Co., Ltd.
1-12, Fukuoka 2-chome,
Fujimino-shi, Saitama
356-8580, Japan

Web / E-mail
www.jrclte.com
contact@jrclte.com