



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	5/10/15/20MHz	
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)	
MIL-STD-810H	Operating Temperature (501.7 and 502.7)	-32°C to +49°C
	Preservation Temperature (501.7 and 502.7)	-33°C to +71°C
	Humidity (507.6)	98%
	Mechanical Shock / Vibration Proof (516.8)	Life phase: Transportation and operation Plat home: Ground Category: Ground vehicle
Applications	JRC INSIGHT-MCX (Optional)	
	- 3GPP MCX Release 15 Compliant	
	- MCPTT, MCVideo and MCDData	
	- Integrated Map Server, Emergency Alert on Map	
Certification	CE	



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