



JRL-119 Outdoor LTE TDD Base Station



Introduction

JRL-119 is an advanced two-carrier outdoor eNodeB (eNB) that is compliant with 3GPP LTE TDD technology. This 4x1W eNB is capable of operating in Carrier Aggregation (CA) mode or Dual Carrier (DC) / split mode. It supports Citizens Broadband Radio Service (CBRS).

With high capacity and easy deployment, the JRL-119 TDD eNB can help mobile operators to provide better coverage and higher capacity with minimal effort. It can realize data access for MBB (Mobile Broadband) network. The typical topology of JRL-119 deployment is as follows.

Highlights

- Any IP based backhaul can be used, including public transmission.
- Support GPS synchronization.
- Lower power consumption to reduce OPEX.
- Excellent Non-Line-of-Sight (NLOS) coverage performance.
- Peak rate: Up to DL 290Mbps and UL 70Mbps with 2x20MHz bandwidth
- 128 RRC connected users per carrier, 128+128 in DC mode.
- Support 5MHz/10MHz/15MHz/20MHz operation bandwidth
- Efficient remote configuring, monitoring, and maintaining operations with JRC network management system (EMS).
- Highly secured with equipment certification against potential intrusion risk.



General Specification

Item	Description
LTE Mode	TDD
Frequency Bands	Band 48/42
Channel Bandwidth	SC: 5/10/15/20 MHz CA: 40 MHz as maximum aggregated bandwidth
MAX Output Power	30dBm/Ant
Receive Sensitivity	-100dBm (per channel)
Synchronization	GPS, 1588v2
MIMO	DL: 2 x 2
Dimensions	333(H) x 240(W) x 105(D) mm Approx. [TBD]
Weight	7.5 kg Approx. [TBD]
Installation Type	Pole, wall
Antenna	N-Type connectors, 4 ports
Power Consumption	Typical 60W, MAX 100W
Power Supply	-40VDC ~ -57VDC, nominal -48VDC AC adaptor (multi-national standards)
Operating Temperature	-40°C to 55°C
Humidity	5% to 95% RH
Ingress Protection Rating	IP66

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