

FDD-LTE Small cell

LTE-4G Band1,Band3 and Band8 **JTD-LTE-M2-S24 (24dBm)**



FDD-LTE 4G Band1,Band3 and Band8

FDD-LTE Small cell is a small low-power FDD-LTE base station, which is connected to the Carrier's EPC core network through the IP transmission network. It can quickly provide 4G signal of FDD-LTE.

Through self-organization/optimization (SON) technology, broadband backhaul technology and multi-interface combination algorithms, it can realize self-configuration, management, and optimization. It is a true plug-and-play device; it also supports multiple switching algorithms and technical means, to achieve seamless connection with the macro network, easily solve 4G network coverage, capacity, quality and other issues, and improve user perception.

Key features

- Provide FDD-LTE coverage, support Band1 and Band3, and other frequency bands can be configured according to user needs
- Support FDD-LTE channel bandwidth of 20MHz/15MHz/10MHz/5MHz
- Support wireless synchronization, GPS synchronization, 1588v2
- SON function, automatic configuration, automatic management, automatic optimization, plug-and-play design
- Support IPSec channel technology and IKEv2 multiple encryption algorithms to ensure network and information security
- Adopting gigabit adaptive network interface and IP return technology, flat structure, strong compatibility
- Low-power equipment, MIMO 2*2(24dBm),small coverage, support automatic power and coverage adjustment, green and healthy
- Support remote management, adopt TR069 protocol, unified network management operation and maintenance
- Indication for equipment abnormal
- Support mobility management functions such as handover and reselection in the system
- Support inter-network collaboration to improve user perception and system capacity.
- Support PoE power supply



Specifications

Technical characteristics

Items	Specifications	
System	FDD-LTE	
Working Frequency Range	Band1,Band3 and Band8 (Customized)	
Channel Bandwidth	5/10/15/20MHz	
Max User Number	32 RRC Active Users,92 RRC Connected Users	
Maximum Output Power	24dBm(2x2 MIMO)	
Receive Reference Sensitivity	≤-98dBm	
Operational Capacity (Measured)	Support Release 9, Downstream FTP Peak Rate of 145 Mbps, Uplink FTP Peak Rate of 40Mbps (20MHz System Bandwidth Configuration, 2x2 MIMO)	
I/O Impedance	50Ω	
RF Connector	2xN-Female	
Power Supply	Input:AC110~220V, 50/60Hz,Output:DC12V,POE (External Power Adapter)	
Dimensions	197mmx197mmx33mm	
Weight	≤2kg	
Mounting	Wall or Pole Mounting	
Operating Temperature	-5°C ~ +40 °C	
Storage Temperature	-20°C ~ +65 °C	
Application	Outdoor(IP65)	
Relative Humidity Range	≤85%(Non Condensing)	
Power LED Indicator	Green	Power Supply On
	OFF	Power Supply Off
Alarm LED Indicator	Green	No Alarm
	Red	Alarm
WAN LED Indicator	Steady Green	The Network Cable is Connected Normally and the IP is Obtained
	OFF	The Network Cable isn't Connected
SYNC LED Indicator	Steady Green	Equipment is Synced
	Red	Equipment isn't Synced
LTE LED Indicator	Steady Green	Cell is activated
	Red	4G Service is Shutdown or not Working

Application

The Small cell is connected to the Carrier's core network through fixed-line broadband, providing users with FDD-LTE services, quickly providing FDD-LTE 4G signals, and solving the problem of low coverage of FDD-LTE signals; Achieving accuracy and depth coverage, improving the network's ability to support data services; absorbing hotspot traffic to offload macro network data.