

Trunk Amplifier 4X4 MIMO

TDD-4800 MHz

JTD-TA-51L37A-1 (37dBm)



5G NR (TDD-4800)

The Single Band Trunk Amplifier is designed to provide a more cost-effective solution than adding a new next generation NodeB (gNB) to extend signal coverage and to improve communication quality in dual system. And its easy installation and maintenance can help carrier get fast return.

The Trunk Amplifier is working as a relay between the gNB and distributed antennas. It receives the low-power RF signal from Small Cell, linearly amplifies the RF signal and then retransmits it via the cables to the antenna distribution system. And the mobile signal is also amplified and retransmitted to the gNB via the opposite direction.

Key features

- Four signal ports with full duplex design.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Stable and improved signal transmission quality.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Supporting 4x4 MIMO.
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- USB port provides a link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely supervise Repeater's working status and download operational parameters to the BDA Via Ethernet.

Advantages

- ☑ **Multi_standards/Multi_operators**
- ☑ **Remote control**
- ☑ **Digital features:**
 - Balancing operator level (Option)**
- ☑ **Low consumption**

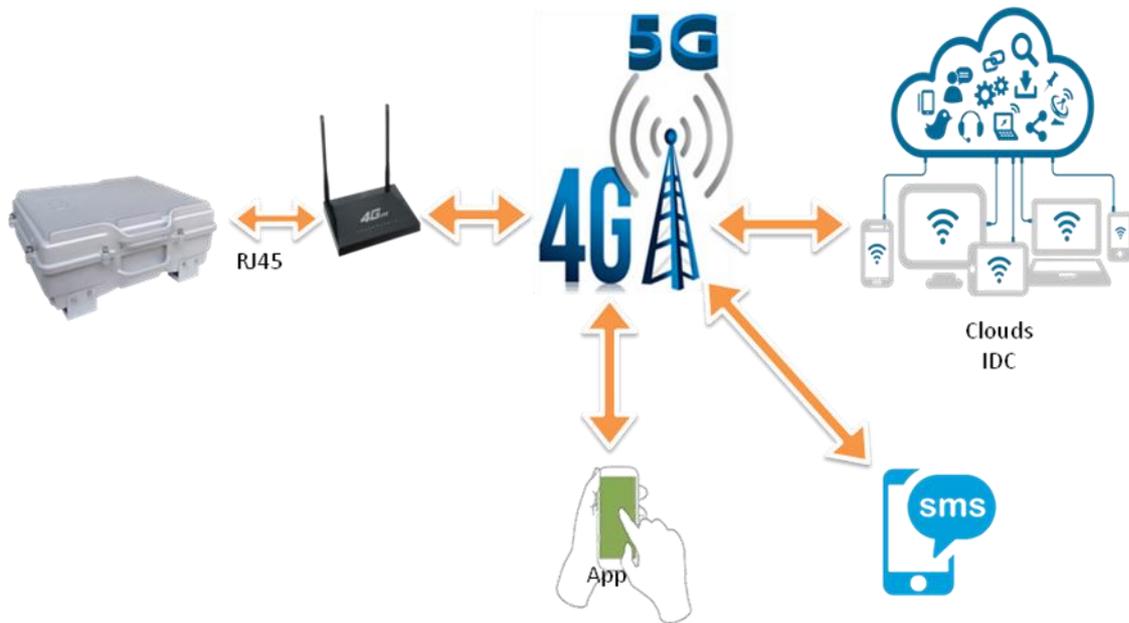


Specifications

Technical characteristics					
Items		Specifications			
System		5G NR TDD-4.8GHz	5G NR TDD-4.8GHz MIMO	5G NR TDD-4.8GHz MIMO	5G NR TDD-4.8GHz MIMO
Working Frequency	Uplink	4800-4900MHz	4800-4900MHz	4800-4900MHz	4800-4900MHz
	Downlink	4800-4900MHz	4800-4900MHz	4800-4900MHz	4800-4900MHz
Maximum Output Power	Uplink	-40±2dBm	-40±2dBm	-40±2dBm	-40±2dBm
	Downlink	37±2dBm	37±2dBm	37±2dBm	37±2dBm
Maximum Gain	Uplink	20±3dB	20±3dB	20±3dB	20±3dB
	Downlink	20±3dB	20±3dB	20±3dB	20±3dB
Gain Adjustment Range		0-20 dB @ Step of 1 dB			
Maximum Input Power		25dBm(Non-Destructive)			
Spurious Emission		9kHz~1GHz: ≤-36dBm			
		1GHz~12.75GHz: ≤-30dBm			
EVM		≤4.5%			
ACPR		≤-40dBc			
VSWR		≤1.5			
Noise Figure		≤ 6dB(Uplink Only)			
System Delay		≤ 1.5µSec			
I/O Impedance		50Ω			
RF Connector		4XSMA(or N)-Female for BTS Ports, and 4XN-Female for MS Ports			
Temperature Range		-25°C ~ + 55°C			
Relative Humidity Range		0 ~ 95% (Non Condensing)			
Application		Indoor and Outdoor (IP65)			
Installation Type		Wall Mounting			
Power Supply		AC100V- AC240V, 50/60Hz			
Dimensions		447x357x203mm			
Weight		≤20kg			
Local Control		Via USB Interface			
NMS Mode		Cloud Network Management System Via 4G Wireless Modem and RJ45 Port			

※The configuration of the 5G NR TDD synchronous slots for all operators must be the same.

Network Management System (NMS)



Applications

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

Outdoor: Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ...

Indoor: Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...

