Trunk Amplifier Single-Band

TDD-4800 MHz

TS-TA-20-37 (37dBm)



5GNR (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

- Two 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 2x2 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



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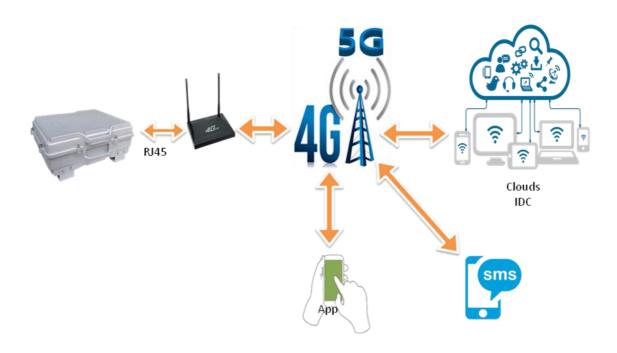
Specifications

Technical characteristics

Item		Specifications
System		5GNR (TDD-4800)
Working Frequency	Uplink	4800~4900MHz
	Downlink	4800~4900MHz
Working Bandwidt Maximum Output Power Maximum Gain (DL	Uplink Downlink	100MHz -40dBm 37dBm 20dB
AGC Range		≥ 10dB
MGC Range		0~20dB@Step of 1 dB
VSWR		≤ 1.5
System Delay		≤ 1.5µs
Noise Figure		≤6dB
Spurious Emission		9kHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm
EVM		≤4.5%
Maximum Input Power(Non- Destructive)		25dBm
ACRP		≤-40dBc
RF Connector Type		2xSMA-Female 2xN-Female
I/O Impedance		50Ω
Ingress Protection		Indoor or Outdoor (IP65)
Operating Temperature		-10°C~55°C
Relative Humidity		≤95%
Dimensions		370x295x170mm
Weight		≤15Kg
Power Supply		AC100V ~240V, 50/60Hz, ≤50W
Local Control		Via USB Interface
Remote Mode		IP Connectivity via RJ45 Port(Cloud Network Management System)
Mounting Type		Wall or Pole Mounting

XThe configuration of the 5GNR 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, ...

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