Trunk Amplifier Single-Band

TDD-4800 MHz **TS-TA-N-20-37 (37dBm)**

Tone Spread
Solutions for Wireless Signal

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

 Website http://www.tspd.com.tw

ADD:11169 2F,No 141,Fu-Gang St. Taipei ,Taiwan TEL:+886-2-28828979 FAX:+886-2-28829196 E-mail: sales@tspd.com.tw

Specifications

Technical characteristics

Item		Specifications
System		5GNR (TDD-4800)
Working Frequency	Uplink	4800~4900MHz
	Downlink	4800~4900MHz
Working Bandwidth		100MHz
Maximum Output Power	Uplink	-40dBm
	Downlink	37dBm
Maximum Gain (DL&UL)		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		4xN-Female(One BTS Port,One MS Port;One MIMO BTS Port,One MIMO MS Port)
I/O Impedance		50Ω
Ingress Protection		Indoor or Outdoor (IP65)
Operating Temperature		-10℃~50℃
Relative Humidity		≤95%
Dimensions		370x295x170mm
Weight		≤15Kg
Power Supply		AC100V ~240V, 50/60Hz
Local Control		Via USB Interface
Remote Mode		IP Connectivity via RJ45 Port(Cloud Network Management System)
Mounting Type		Wall or Pole Mounting

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

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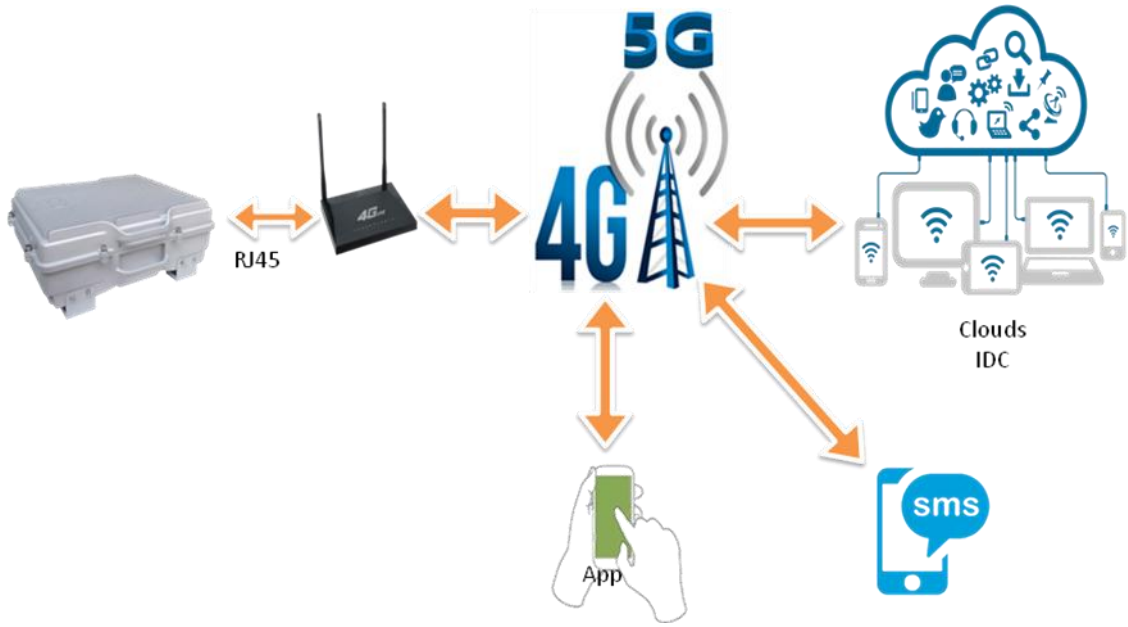
Network Management System (NMS)



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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