

Trunk Amplifier_Quad-Band



Tone Spread
Solutions for Wireless Signal

1800-3800 MHz

TS-BDA-53L40A

1800 MHz + 2100 MHz + 2600 MHz + 3800MHz

The Trunk Amplifier provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return.

The Trunk Amplifier is working as a relay between the BTS/Repeater and distributed antennas. It receives the low-power signal from Trunk line of indoor distribution system via the coupler, linearly amplifies the signal and then retransmits it via the cables to the antenna distribution system. And the repeater signal is also amplified and retransmitted to the BTS via the opposite direction.

Key features

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- Stable and improved signal transmission quality.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- USB/RJ45 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 repeater via Ethernet.

Advantages

- ☑ Multi_standards/Multi_operators
- ☑ Remote Control
- ☑ Low consumption

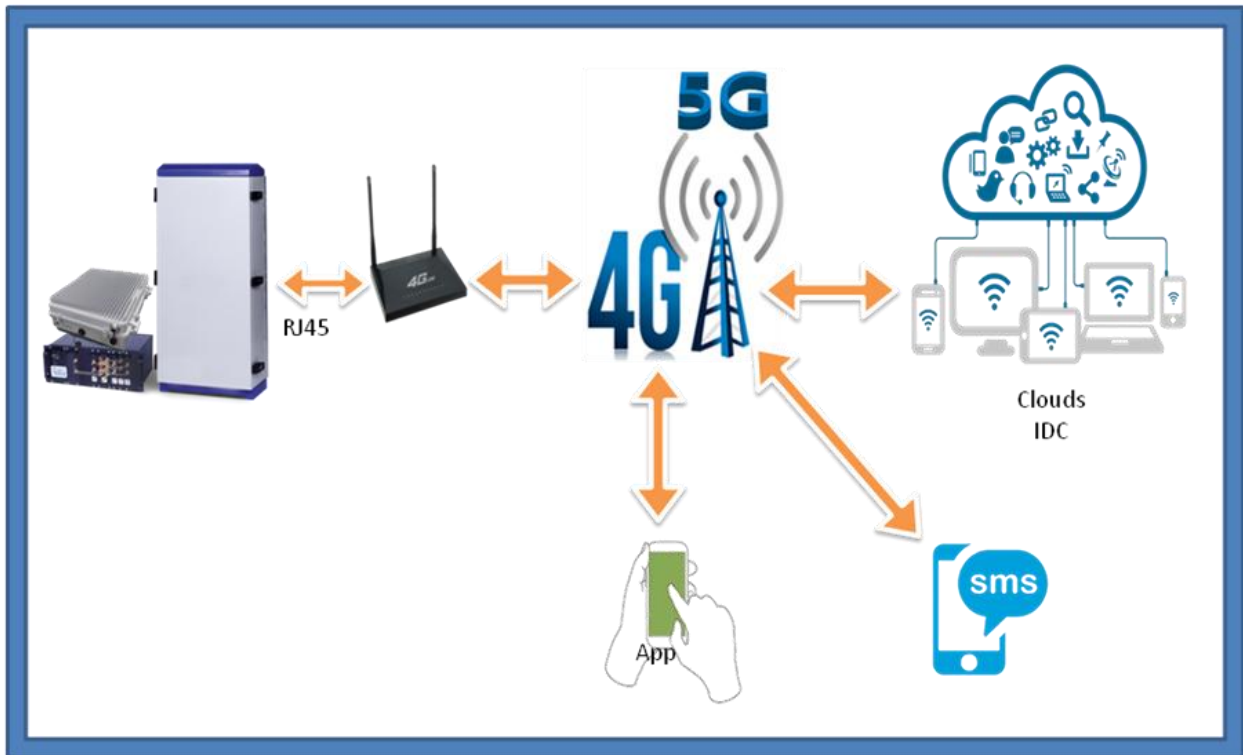


Specifications

Technical characteristics

Items		Specifications			
System		DCS/LTE1800	UMTS/LTE2100	5GNR TDD-2600	5GNR TDD-3800
Frequency Range	Uplink	1710~1785MHz	1920~1980MHz	2500~2600MHz	3700~3900MHz
	Downlink	1805~1880MHz	2110~2170MHz	2500~2600MHz	3700~3900MHz
Working Bandwidth		75MHz	60MHz	100MHz	200MHz
Composite Output Power	Uplink	-10±2dBm per Band			
	Downlink	40±2dBm per Band			
Maximum Gain		45±3dB per Band			
MGC Range		0~25dB (@ Step of 1dB)			
AGC Range		≥10dB			
Smart Mode		YES			
VSWR		≤1.5			
Group Delay		≤ 1.5μs			
I/O Impedance		50 Ω			
Noise Figure		≤6dB			
Spurious Emission		9kHz~1GHz: ≤ -36dBm			
		1GHz~12.75GHz: ≤ -30dBm			
RF Connector		2*N- Female(1 BTS Port and 1 MS Port)			
Power Supply		Input:AC110~220V, 50/60Hz			
Power Consumption		≤280W			
Dimensions		500*440*235mm			
Weight		≤45kg			
Operating Temperature		-10 ~ +50 °C			
Application		Indoor or Outdoor(IP65)			
Relative Humidity Range		≤95%(Non condensing)			
Installation Type		Wall Installation			
LED Indicators		Power Supply, Running, Alarm			
Local Control		Via USB Interface or Wi-Fi Hotspot			
NMS Mode(Optional)		Cloud NMS via Built-in 4G Wireless Modem			

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, ...

