

# Trunk Amplifier\_Dual Band

1800-2100 MHz

**JTD-LA-L20L-DW-40-20**



**JIETONG DIGITAL**

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## LTE1800+LTE2100

The **JTD-LA-L20L-DW-40-20** Dual-Band Trunk Amplifier (Line Amplifier) is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to extend signal coverage and to improve communication quality in Dual-Band system. And its easy installation and maintenance can help carrier get fast return. The Trunk Amplifier is working as a relay between the BTS 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 mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

## Key features

- Two signal ports with full duplex design.
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink.
- Stable and improved signal transmission quality.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Auto Isolation check between service and donor antennas.
- Smart mode to auto-adjust gain according to the isolation and signal level received by donor site.
- Auto shut off function available for both uplink and downlink.

## Advantages

☑ **Multi\_standards/Multi\_operators**

☑ **LCD real-time display to show the instant power and gain for each link.**

☑ **Smart function to set the proper gain automatically**

☑ **Shown output signal strength with numerical number.**



# Specifications

## Technical characteristics

Item	Specifications	
System	LTE1800/LTE2100	
Working Frequency	Uplink	1710~1785MHz/1920~1980MHz
	Downlink	1805~1880MHz/2110~2170MHz
Working Bandwidth	75MHz/60MHz	
Maximum Output Power	Uplink	≥0dBm per Band
	Downlink	≥20dBm per Band
Maximum Gain	40dB	
AGC Range	≥ 25dB	
MGC Range	0~31dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 1.0μs	
Noise Figure	≤6dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
Monitoring System	LCD real-time display to show the instant power and gain for each link.	
LED Alarm	GREEN @ Normal, Red @ ALC 10dB,	
RF Connector Type	2xN-Female	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP40)	
Operating Temperature	-25°C~55°C	
Relative Humidity	≤95%	
Dimensions	128x170x65mm	
Weight	≤2.2Kg	
Power Supply	AC100V ~240V, 50/60Hz, ≤12W	
Smart Mode	Smart function to set the proper gain automatically	
ISO	When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Mounting Type	Wall Mounting	

# Applications

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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, ...

