

# Trunk Amplifier\_Quad Band

700-2100 MHz

**JTD-L20L-LGDW-25-20 (20dBm)**



**JIETONG DIGITAL**

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## LTE700+LTE900+LTE1800+LTE2100

The JTD-L20L-LGDW-25-20 Quad-Band Trunk Amplifier (Line Amplifier) is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) or RF Repeater to extend signal coverage and to improve communication quality in DAS system. And its easy installation and maintenance can help carrier get fast return. The Trunk Amplifier is working as a relay between the BTS or RF 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 mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

## Key features

- Two signal ports with full duplex design.
- 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
<b>System</b>	<b>LTE700/LTE900/LTE1800/LTE2100</b>
<b>Working Frequency</b>	<b>Uplink</b> 703~748/885~915/1710~1775MHz/1920~1980MHz
	<b>Downlink</b> 758~803/930~960/1805~1870MHz/2110~2170MHz
<b>Working Bandwidth</b>	45MHz/30MHz/65MHz/60MHz
<b>Maximum Output Power</b>	<b>Uplink</b> 0dBm per Band
	<b>Downlink</b> 20dBm per Band
<b>Maximum Gain</b>	25dB
<b>AGC Range</b>	≥ 25dB
<b>MGC Range</b>	0~31dB@Step of 1 dB
<b>VSWR</b>	≤ 1.5
<b>System Delay</b>	≤ 1.0μs
<b>Noise Figure</b>	≤6dB
<b>Spurious Emission</b>	9kHz~1GHz: ≤ -36dBm
	1GHz~12.75GHz: ≤ -30dBm
<b>Monitoring System</b>	LCD real-time display to show the instant power and gain for each link.
<b>LED Alarm</b>	GREEN @ Normal, Red @ ALC 10dB,
<b>RF Connector Type</b>	2xN-Female
<b>I/O Impedance</b>	50Ω
<b>Ingress Protection</b>	Outdoor (IP40)
<b>Operating Temperature</b>	-25°C~55°C
<b>Relative Humidity</b>	≤95%
<b>Dimensions</b>	310x170x65mm
<b>Weight</b>	≤5.5Kg
<b>Power Supply</b>	AC100V ~240V, 50/60Hz, ≤35W
<b>Smart Mode</b>	Smart function to set the proper gain automatically
<b>ISO</b>	When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off
<b>Mounting Type</b>	Wall Mounting

# 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, ...

