Trunk Amplifier_Dual Band

1800-2100 MHz

JTD-LA-L20L-DW-40-20



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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.



☑ Shown output signal strength with numerical number.

Specifications

Technical characteristics

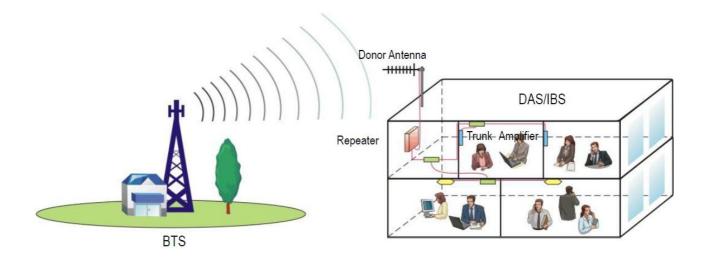
Item		Specifications
System		LTE1800/LTE2100
Working Frequency	Uplink	1710~1785MHz/1920~1980MHz
	Downlink	1805~1880MHz/2110~2170MHz
Working Bandwidt Maximum Output Power	h Uplink Downlink	75MHz/60MHz ≥0dBm per Band ≥20dBm per Band
Maximum Gain		40dB
AGC Range		≥ 25dB
MGC Range		0~31dB@Step of 1 dB
VSWR		≤ 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

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

 $\textbf{Outdoor:}\ \ \text{Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages,} \dots$

Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...



E-Mail: sales@jtd.com.tw