

UHF Trunk Amplifier

485-505 MHz

JTD-BDA-500-40-33 (33dBm)



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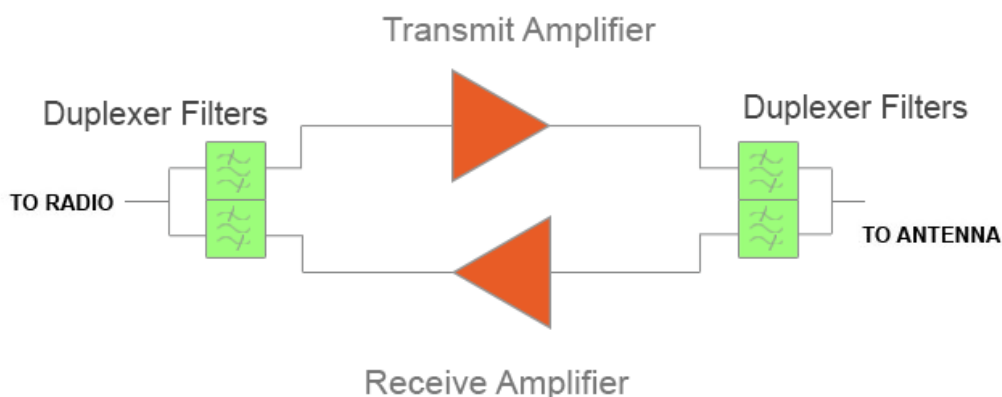
In-Line Booster can amplify uplink and downlink signals in both directions, improve voice quality, effectively expand and fill the blind area of base station signal coverage, and expand coverage. It is mainly used to compensate the signal loss of the trunk cable of indoor distribution system and wireless access indoor distribution system.



Key features

- ✧ Intelligent and modular power amplifier unit adopts high gain and high linearity LDMOS tube imported power amplifier module, low power consumption and ultra-linear design to improve its transmission efficiency.
- ✧ It adopts switch regulated power supply, with wide regulated range and high efficiency.
- ✧ The user's use environment and conditions are fully considered in the design, so that the equipment can work 24 hours and be unattended.
- ✧ Modular structure, easy installation and maintenance.
- ✧ All nameplates are laser engraved, beautiful, clear and not easy to wear.

Full-duplex Bi-directional Amplifier



Specifications

Items		Testing Condition	Specification	
			Uplink	Downlink
Working Frequency(MHz)		Nominal Frequency	500-505MHz	485-490MHz
Gain(dB)		Nominal Output Power-5dB	40±3	
Output Power (dBm)		modulating signal	0	33
ALC (dBm)		Input Signal add 20dB	△Po≤±1	
Noise Figure (dB)		Working in-band (Max. Gain)	≤5	
Ripple in-band (dB)		Nominal Output Power -5dB	≤3	
Time Delay (us)		Working in-band	≤1.5	
Gain Adjustment Step (dB)		Nominal Output Power -5dB	1dB	
Gain Adjustment Range(dB)		Nominal Output Power -5dB	≥25	
Gain Adjustable Linear(dB)	10dB	Nominal Output Power -5dB	±1.0	
	11-25dB	Nominal Output Power -5dB	±1.5	
Inter-modulation Attenuation (dBc)		Working in-band	≤-40	
Spurious Emission(dBm)	9kHz-1GHz	BW:30KHz	≤-36	
	1GHz-12.75GHz	BW:30KHz	≤-30	
VSWR		BS/MS Port	≤2	
I/O Port		N-Female		
Impedance		50ohm		
Operating Temperature		-25℃ ~+55℃		
Relative Humidity		Max. 95%		
Power Supply		DC-48V/AC220V (50Hz)/AC110V (60Hz)(±15%)		
Control Port		USB		
Dimensions(package size)		510(mm)×320(mm)×185(mm)		
Weight		N.W.20KG G.W.23KG		

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, ...

