

UHF / TETRA BDA CSG-9440-BDA90-40X

CSG UHF / TETRA BDA is designed to provide a more cost-effective solution for indoor coverage of signal enhancement to provide good conectivity with radio users (Portable).

The BDA works as repeater between the Base station and mobiles. It receives the low-power signal from Base station via the Donor Antenna or through Transmission line, it further amplifies the signal and then retransmits it via the Coverage Antenna to the weak/blind spots. On the reverse path signals from mobile radios is also amplified and retransmitted to the Base station.



The band-selective function amplifies all signals in the entire band (bandwidth is customized).

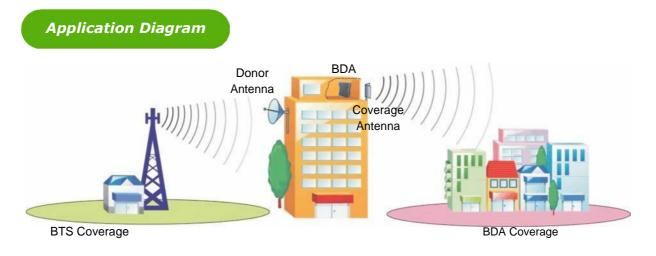
Features

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corroding
- No interference to BTS by adopting linear amplifier with high gain and low noise
- Adopting filter with highly selective and low insertion loss eliminates interference between Uplink and Downlink
- USB port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System) that can remotely supervise BDA's working status and download operational parameters to the BDA

Applications

To expand signal coverage or enhance signal blind area where UHF / TETRA signal is weak or not present.

- Public Safety
- Transportation
- Utilities
- Government
- Military
- PAMR
- Commercial & Industry
- Oil & Gas



Technical Specifications

Items			Specifications	
Frequency Range(Customized)		Uplink	Downlink	
		443~444.5 MHz	438~439.5 MHz	
Maximum Output Power(Customized)			30dBm	40dBm
Maximum Gain			90dB±2dB	90dB±2dB
Bandwidth			1.5 MHz	
In-band flatness			≤3dB	
Auto Level Control (ALC)			≤2dB	
Noise Figure			≤ 5dB	
Gain Adjustment Range			1~31 dB @ step of 1 dB	
VSWR			≤1.5	
Phase P-P error			≤20	
RMS phase error			≤5	
System Delay			≤5.0 us	
Spurious Emission	In-Band		≤-22dBm/30KHz	
	Out-Band	9KHz-1GHz	≤-36dBm/30KHz	
		1GHz	≤-30dBm/30KHz	
Third-order Inter-Modulation	In-Band		≤ -45dBc / 30kHz ≤ -40dBc / 30kHz	
			9KHz~1GHz: ≤-36dBm/30KHz	
	Out-Band		1GHz~12.75GHz: ≤-36dBm/30KHz	
Output/input resistance			50 Ω	
RF Connector			N-Type (Female)	
Working temperature			-25°C ~+55°C	
Relative humidity			5~95% RH	
Power Supply (customized)			AC220V,50/60Hz	
Dimensions			428mm X 328mm X 220mm	

Weight	30kg		
Backup Power Supply (optional)	4 hours		
Casing Level	IP65		
	UL/DL Power, UL/DL Max Gain, RSSI, ATT, Channel		
NMS Monitoring Parameters (optional)	No, UL/DL Output ALC, Power alarm Threshold,		
	UL/DL PA Temperature etc		
	Channel No., ATT, Output Power Thresholds UL/DL,		
NMS Controlled Parameters (optional)	UL/DL Output ALC , PA Switch ,Alarm Report can be		
	enable /disable etc		