TETRA Digital Channel Selective BDA

480-512 MHz TS-DRP-500-80-37 (37dBm)



TETRA DIGITAL BDA

The digital BDA is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to improve signal coverage and communication quality in mobile system. And its easy installation and maintenance can help carrier get fast return.

The BDA is working as a relay between the BTS and mobile terminals. It receives the low-power signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Coverage Antenna to the weak/blind coverage area. And the radio network 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.
- Stable and improved signal transmission quality.
- > Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- Highly selective digital channel selector can process up to 16 channels simultaneously.
- Adopting filter with highly selectivity 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 repeater's working status and download operational parameters to the repeater.

Advantages

- Multi_standards/Multi_operators
- ☑ Remote control
- **Digital features:**

Balancing operator level (Option)

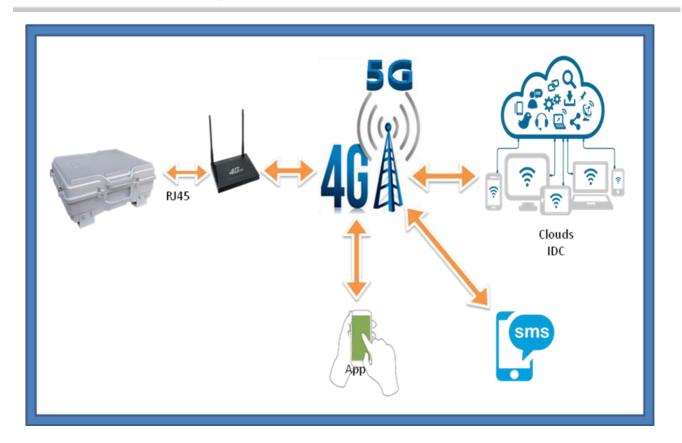
Low consumption



Specifications

Technical characteristics								
Items		Specifications						
System		TETRA						
	Uplink	480~512MHz (Assign frequencies according to NCC assignments)						
Working Frequency		480~512MHz						
	Downlink	(Assign frequencies according to NCC assignments)						
No. of Channels(Programmable)		Up to 8/12/16 channels						
		≥ 30dBm@1ch(Carrier)						
Maximum Output Power	Uplink	\geq 27dBm@2ch(Carriers)						
		≥ 24dBm@4ch(Carriers) ≥ 36dBm@1ch(Carrier)						
	Downlink	≥ 33dBm@2ch(Carriers)						
		≥ 30dBm@4ch(Carriers)						
TX/RX Pass Band		≥5MHz						
Maximum Gain	Uplink	≥75dB						
	Downlink	≥80dB						
Manual Gain Adjustment Range		≥25dB@Step of 1dB						
ALC		Support						
VSWR		≤ 1.5						
Maximum Input Power(Non- Destructive)		-10dBm						
OPI3		≥50dBm						
Spurious Emission		≤ -13dBm						
Noise Figure		≤ 9dB						
System Delay		≤ 35µs@25kHz						
Output/Input Resistance		50 Ω						
RF Connector		2xN-Female or 7/16DIN						
Operating Temperature		-25 ~ +55 °C						
Relative Humidity Range		≤ 95%(Non Condensing)						
Application		Indoor or Outdoor(IP65)						
Power Supply		AC100~240V, 50/60Hz or DC 48V						
Dimensions		447X357X171mm						
Weight		≤ 16kg						
Mounting		Wall Mounting						
Local Control		Via USB Interface and Wi-Fi Hotspot						
Remote Mode(Optional)		Cloud NMS via 4G Wireless Modem or RJ45 Port						

Network Management System (NMS)



Applications

To expand signal coverage or enhance signal blind area where radio network signal is weak or unavailable.

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

