KMD

DUAL BAND TETRA/IDEN CELL ENHANCER



Applications:

- TETRA Digital Trunked Radio
- iDEN Digital Radio
- Tunnel and In-building Coverage
- Automation & Industrial Control
- > In-plant SCADA Network

The Dual Band TETRA-iDEN Cell Enhance is an outdoor rated (IP66) and natural air cooled bidirectional Radio Frequency (RF) signal booster operating in 400~430 Mhz Tetra band and 806~869Mhz iDEN band. This product is customisable to accommodate other frequency ranges.

Typical application of the Dual Band TETRA-iDEN Cell Enhancer is off-air repeater, to improve RF coverage areas such as underground tuners, in-building car parks, offices, and shopping malls for TETRA digital trunk radio system and iDEN digital radio system.

Dual Band TETRA-iDEN Cell Enhancer provides 60dB min. Gain to both downlink and uplink RF signal from the Base Stations, amplifying the signal in the blind spot areas to sufficient level for communication.

The Dual Band TETRA & iDEN Cell Enhancer offers the following advantage:

Support Dual TETRA & iDEN Band Compact and Light-weight IP66 rated for harsh outdoor environment Fan Free, Maintenance Free Simultaneous Transmission & Reception High Output Power







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Specifications:

Electrical Specifications:

Models	DCE-380/410-806/869	
Frequency Ranges	410~430Mhz & 806~869Mhz	
Туре	Band Selective	
Bandwidth	5Mhz (410~430Mhz)/18Mhz (806~824Mhz)	
Maximum Composite Power		
Up Link	+18 dBm @1 carrier, +12dBm @ 4 carriers	
Down Link	+36 dBm @ 1 carrier, +30 dBm @ 4 carries	
Maximum Input Power		
Up Link	-20 dBm	
Down Link	-14dBm	
OIP3		
Up Link	> +41 dBm	
Down Link	> +54 dBm	
Spurious Emissions	< -36 dBm, according to EN301489-1; EN301489-18	
Gain Uplink & Down link	60 dB	
Gain Adjustment Range.	30dB in 1dB steps	
Nominal Impedance	50 ohm	
Minimum Return Loss	-18 dB min	
Noise Figure	<6 dB	
Connector Type	N Female	
Power	230 VAC / 50-60Hz @ 5A	

Management:

Local Alarms	LCD Indicators/Dry Contacts
Local Connectivity	Local Management Software
Remote Connectivity	Serial Communication to Management Software

Mechanical Specifications:

Cabinet type	IP66	
Weight	< 80 kg	
Dimension (LxBxH)	700x400x700mm	

Environment Specifications:

Operating Terperature	0 to +55 °C
Humidity	95% non-condensing

