

OFF AIR TETRA CELL ENHANCER



Applications:

- TETRA Digital Trunked Radio
- Automation & Industrial Control
- In-plant SCADA Network

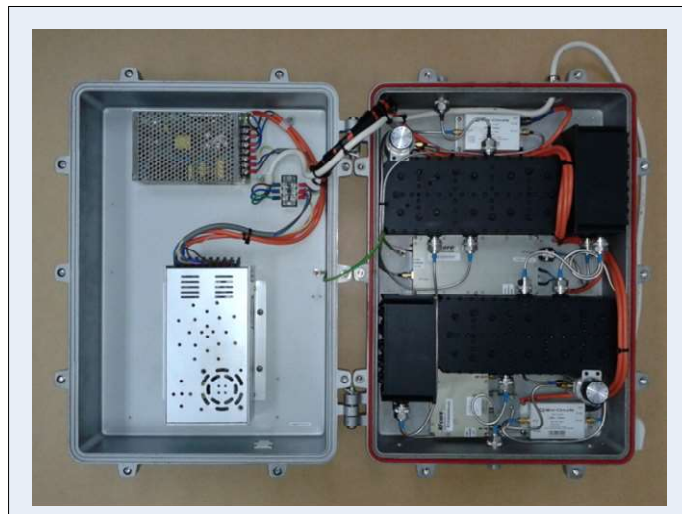
The TETRA Cell Enhance is a compact outdoor rated (IP65) and natural air cooled bi-directional Radio Frequency (RF) signal booster operating in 380~400 Mhz or 410~430 Mhz Tetra band.

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

TETRA Cell Enhancer provides 70dB Gain to both downlink and uplink RF signal from the Base Stations, boosting the signal in the blind spot area to sufficient level for reliable communication.

The TETRA Cell Enhancer offers the following advantage:

- Compact and Light-weight
- IP65 rated for harsh outdoor operation
- Easy Implementation
- Fan free, natural air cooled
- Simultaneous Transmission & Reception
- High Output Power





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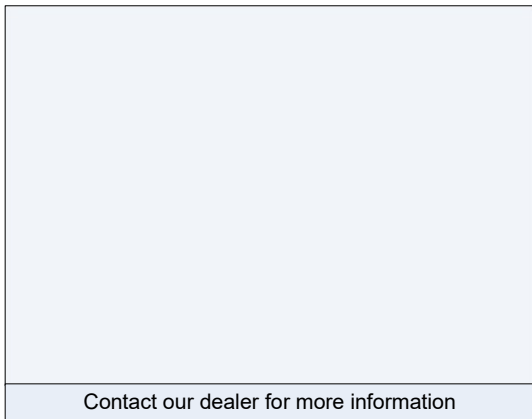
Specifications:

Electrical Specifications:

Models	TCE-380	TCE-430
Frequency Ranges	380~400Mhz	410~430Mhz
Type	Band Selective	
Bandwidth	5Mhz	7Mhz
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	-30dBm	
OIP3		
Up Link	> +41 dBm	
Down Link	> +41 dBm	
Spurious Emissions	< -36 dBm, according to EN301489-1; EN301489-18	
Gain Uplink & Down link	70 dB	
Gain Adjustment Range.	30dB in 1dB steps	
Gain Ripple	+/- 2.0dB max	
Nominal Impedance	50 ohm	
Minimum Return Loss	-18 dB min	
Noise Figure	<6 dB	
Connector Type	N Female	
Power	94 – 230 VAC / 50-60Hz @ 5A	
External DC Supply (option)	+27 @ 15 A	

Management:

Local Alarms	LED Indicators
Local Connectivity	USB to Local Management Software
Remote Connectivity	Modem/Wireless to Management Software



Mechanical Specifications:

Cabinet type	IP65
Weight	< 30 kg
Dimension (LxHxB)	540x390x216mm

Environment Specifications:

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

