

DUAL BAND TETRA CELL ENHANCER



Applications:

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

The Dual Band TETRA Cell Enhancer is an outdoor rated (IP66) and natural air cooled bi-directional Radio Frequency (RF) signal booster operating in 380~400 Mhz and 410~430Mhz Tetra band.

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

Dual Band TETRA Cell Enhancer provides 50dB min. Gain to both downlink and uplink RF signal from the Base Stations, amplifying the RF signal in the blind spot areas to sufficient level for reliable communication.

The Dual Band TETRA Cell Enhancer offers the following advantage:

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



DUAL BAND TETRA CELL ENHANCER

Specifications:

Electrical Specifications:

| | |
|-------------------------|---|
| Models | DCE-380/410 |
| Frequency Ranges | 380~400Mhz & 410~430Mhz |
| Type | Band Selective |
| Bandwidth | 5Mhz (380~400Mhz)/7Mhz (410~430Mhz) |
| 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 | 50 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) | 700x400x780mm |

Environment Specifications:

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