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Extend BTS coverage through optical cable

BTS Link204/208 Dual Frequency Optical Repeater System with DBROU.

The BTS-Link 204/208 repeater is a dual-frequency distributed antenna system for point-to-multipoint indoor/outdoor coverage. It consists of a main optical unit (MOU) installed near the BTS and a remote optical unit (ROU) installed at a long distance (indoor/outdoor) location. It uses single-mode fiber to establish a connection between the MOU and the ROU. The 204 version supports a maximum of 4 ROUs; the 208 version supports a maximum of 8 ROUs.

Features

Compatible with GSM, CDMA, iDEN and WCDMA technologies

Suitable for 700 MHz / SMR 800 MHz / Cellular 850 MHz / SMR 900 MHz / GSM 900 MHz / DCS 1800 MHz / PCS 1900 MHz / UMTS / AWS frequency band compatible frequency hopping BTS low noise and high linearity performance

The MOU receives the pre-allocated RF signal in the dual band from the BTS in the DL path, and transmits it to the ROU in a different location after being converted to an optical signal on a single-mode fiber

ROU converts optical signals into RF signals and radiates after amplification

In the UL path, the ROU receives the RF signal from the mobile user and converts it into an optical signal for transmission to the MOU. In the MOU, the signal is re-converted to an RF signal for input to the BTS

Since the signal between the MOU and the ROU is transmitted as an optical signal, the issue of antenna isolation is not important. System monitoring is performed through a USB port with a simple GUI

Can integrate remote CMC monitoring with RF modem (optional), optional RMS (remote management system)

Microprocessor control functions, such as local control, alarm and RSSI indication, SNMP optional.

Application field

Indoor/outdoor coverage depends on the ROU installed at the site

Indoor covered high-rise buildings, hospitals, shopping centers, etc.

Tunnels, highways and other outdoor places that require large area coverage

Frequency bandwidth

A single sub-band is equipped in any preset service frequency band, and the bandwidth of the sub-band can be customized according to requirements