

BTS Link204/208 with DBROU

Dual Band Optical Repeater System



Dual Band Remote
Optical Unit DBROU (Outdoor)



Dual Band Master
Optical Unit MOU 204/208



Dual Band Remote
Optical Unit DBROU (Indoor)

EXTENSION OF BTS COVERAGE THROUGH OPTICAL FIBER CABLE

BTS-Link 204/208 repeater is a dual band distributed antenna system for point to multi-point indoor/outdoor coverage. It is comprised of a Master Optical Unit (MOU) installed close to the BTS, and Remote Optical Units (ROUs) installed at distant (Indoor/Outdoor) locations. It uses single-mode fiber for connectivity between the MOU and ROUs. The 204 version supports up to 4 ROUs; the 208 version supports up to 8 ROUs.

FEATURES

- Compatible with GSM, CDMA, iDEN & WCDMA technologies
- Available for 700 MHz/SMR 800 MHz/Cellular 850 MHz/SMR 900 MHz/GSM 900 MHz/DCS 1800 MHz/PCS 1900 MHz/UMTS/AWS frequency bands
- Compatible with frequency hopping BTS
- Low noise and highly linear performance
- The MOU receives RF signals in a pre-assigned dual band from the BTS in DL path & transmits after conversion to optical signals on single mode fibers to ROUs at different locations
- ROU reconverts optical signals to RF signals and radiates after amplification
- In the UL path, the ROU receives RF signals from mobile users and converts them to optical signals for transmission to the MOU where signals get reconverted to RF signals for input to BTS
- Since the signals between MOU and ROU are propagated as optical signals, antenna isolation problems have no significance
- System monitoring is through USB port with easy GUI
- Remote CMC monitoring with RF modem (optional) can be incorporated
- RMS (Remote Management System) is optional
- Microprocessor controlled features like local control, alarms & RSSI indication
- SNMP optional

APPLICATION AREAS

- Indoor/Outdoor Coverage
Depending on ROUs Installed at Site(s)
- High rise buildings, Hospitals, Shopping Malls, etc. for Indoor Coverage
- Tunnels, Highways & Other Outdoor Locations Where Coverage is Required for Large Areas

MODEL

- BTS-204
- BTS-208

FREQUENCY BANDWIDTH

Equipped with single sub band in any one of the pre-set service bands, the bandwidth of the sub band is customized as per requirement

PACKAGE CONTENTS

- Operational Manual
- Power Supply Cord
- USB Interface Cable
- Software (CMC) CD
- Patch Cord
- Directional Coupler
- N-Type Cable

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SPECIFICATIONS

DBROU MODEL					
RF Power Composite	RF Power P1 (dBm)	Power Consumption (Approx.)	Dimensions (Approx.) mm (inches)	Weight (Approx.) kg. (lbs.)	Model No.
20 W	+47	250 W	800 x 445 x 210 (31 x 17 x 8)	30 (66)	ODROU43 (Outdoor)

MOU SPECIFICATIONS	
RF Input Power Level	0 to +10 dBm through Directional Coupler
RF Interface Connector	N Type
Attenuation Range	0-31 dB in steps of 1 dB
Attenuation Type (DL/UL)	Automatic
Optical Power Output	-1.5 dBm Min.
Optical Interface Connector	FC-PC
Power Supply	Input: -48 V DC, Option also Available with 220 V AC Main
Power Consumption Approx.	60 Watts (Fully Equipped)
Weight Approx.	12 kg. (26 lbs.)
Dimensions (L x W x H) Approx.	485 x 400 x 135 mm (19 x 16 x 5 in.)
Operating Temperature Range	-5° to 55° C (23° to 131° F)

DBROU SPECIFICATIONS	
Optical Tx Wavelength	1550 nm
Optical Rx Wavelength	1310 nm
RF Impedance	50 Ohms
Attenuation Range	0-31 dB in steps of 1 dB (Manual Software Control)
Attenuation Type (UL/DL)	Automatic/Manual through GUI
Noise Figure	5 dB Max.
Power Supply	Input: AC 100 - 240 V, 47/63 Hz
RF Connector	N Type Female
Optical Interface Connector	FC-PC
Optical Distance	5 Km/10 Km/20 Km
Optical Power Output	+4 dBm Min.
Operating Temperature Range	Indoor: -5° to 55° C (23° to 131° F) Outdoor: -35° to 55° C (-31° to 131° F)

CORPORATE HEADQUARTERS