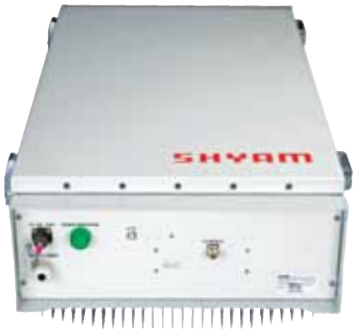
SHYAM

BTS Link304/308 with TBROU

Tri Band Optical Repeater System



Tri Band Remote Optical Unit
TBROU (Outdoor)

Tri Band Master Optical Unit
MOU 304/308

EXTENSION OF BTS COVERAGE THROUGH OPTICAL FIBER CABLE

The BTS-Link 304/308 repeater is a tri 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. ROUs. The system is available in two versions: #304 supports up to 4 ROUs and #308 supports up to 8 ROUs.

FEATURES

- Compatible with GSM, CDMA, iDEN, WCDMA and LTE technologies
- Available for S800 MHz + S900 MHz +1900 MHz/700 MHz + 850 MHz + 1900 MHz/900 MHz + 1800 MHz + 2100 MHz/850 MHz + 1900 MHz + 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

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

MODELS

- BTS-304
- BTS-308

SHYAM

BTS Link304/308 with TBROU

SPECIFICATIONS

TBROU MODELS

RF Power (dBm)	Power Consumption (Approx.)	Dimensions (Approx.) mm (inches)	Weight (Approx.) kg. (lbs.)	Model Nos.
+33	200 W	850x515x240 (33.5x20.3x9.4)	44 (97)	TBROU33 (Outdoor)
+37	275 W	850x515x240 (33.5x20.3x9.4)	44 (97)	TBROU37 (Outdoor)
+40	350 W	850x515x240 (33.5x20.3x9.4)	44 (97)	TBROU40 (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	-2 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)

TBROU 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
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 Type
Optical Distance	5 Km/10 Km/20 Km
Optical Power Output	+4 dBm Min.
Operating Temperature Range	Outdoor: -35° to 55° C (-31° to 131° F)

VNL-BTS Link 304/308 | November 2015 | PA3

CORPORATE HEADQUARTERS

Shyam VNL Limited
VNL, 21-B, Sector 18, Udyog Vihar
Gurgaon 122 015, Haryana, INDIA
Tel +91 124 309 2000
www.vnl.in