

mRRUS 12

The mRRUS expands coverage and performance in dense urban areas, where the use of small handheld devices demand high capacity in the operator networks. The mRRUS 12 is designed to be located below roof level in cities and in demanding radio environments. The mRRUS 12 is prepared to deliver high performance Mobile Broadband user experience in Heterogeneous Network configurations in urban environments. The mRRUS 12 can be connected in a star or cascade configuration using optical cable links. A fiber optic cable connects the mRRUS 12 to the main unit or to a hybrid macro RBS. The mRRUS 12 is available in the following variants:

- Integrated AC-PSU and integrated antenna
- Integrated DC-PSU and integrated antenna
- Integrated AC-PSU and external antenna ports
- Integrated DC-PSU and external antenna ports

The mRRUS 12 supports WCDMA and LTE in single or mixed mode, has duplex transmitter/receiver (2TX/2RX) branches and supports up to 5 Gbit/s optical CPRI. The mRRUS 12 complies with 3GPP base station classes Medium Range (MR) and Local Area (LA).

The optional equipment for the mRRUS 12 is wall or pole installation kit, TX-monitor and semi-integrated omni-antenna.



TECHNICAL SPECIFICATIONS mRRUS 12

FREQUENCY BANDS MRRUS, WCDMA, LTE FDD:

3GPP Bands B1 (W/L), B2 (W/L), B3 (W/L), B4 (W/L),
B7 (L), B12 (L), B13 (L)

HW CAPACITY:

Carrier capacity WCDMA: 4
Carrier capacity LTE: 1 x 20 MHz FDD
IBW: Up to 25 MHz
MIMO: Yes, 2T2R
Output power: Up to 2 x 5W

INTERFACE SPECIFICATIONS:

Power supply: AC or DC, 2-Wire
Antenna Ports: 2 x N-type insert-receiver
External Alarm: 2
CPRI: 2 x 5,0 Gbps CPRI (Changeable SFPs)
Maintenance button
5 x optical indicators
Field Ground

MECHANICAL SPECIFICATIONS:

WxDxH: 265 mm x 140 mm x 460 mm with solar shield, handle and feet
WxDxH: 240 mm x 121 mm x 380 mm without solar shield, handle and feet
Volume and weight: 11 litres and 10 kg
Mounting: Wall and pole mount with optional kit

POWER SPECIFICATIONS AC:

Nominal voltage: 100 to 250 VAC
Voltage variation: 85 to 275 VAC

POWER SPECIFICATIONS DC:

Nominal voltage: -48 VDC
Voltage variation: -58,5 to -38,0 VDC

ENVIRONMENTAL SPECIFICATIONS:

Environment: Outdoor class with IP55
Operating temp: -40 - +55 °C (cold start at -40 °C)

HW CAPACITY:

Technical specification	High bands 2300-2690 MHz	High bands 1710-2170MHz	Low bands 698-787MHz
Gain	5 dBi	6 dBi	6 dBi
0dBi beam with:			
Horizontal plane	130°	140°	130°
Vertical plane	120°	120°	130°
3dB beam width:			
Horizontal plane	100°	100°	90°
Vertical plane	80°	90°	90°