

Y-Trunk

Long-haul High Capacity

FEATURES

- Full range ITU-R frequencies: 4L/U, 6, 6.5, 7, 8, 11 GHz
- 16QAM to 1024QAM for longer hops and/or increased capacity
- Hybrid Ethernet/IP and/or TDM/E1/STM1 operation supports legacy networks
- Electrical and optical (MM, SM) Gigabit Ethernet Interfaces available
- Low-risk, cost effective migration path from TDM to Hybrid, to all-IP
- High MTBF design and manufacture for ultra-reliability

PRODUCT OVERVIEW

WORKS EVEN IN EXTREME CLIMATIC CONDITIONS

The “full indoor” equipment creates multi-channel (up to 4 or more trunks) radio relay links with increased reliability and stability in regions with harsh weather conditions and arctic climate. The equipment is located inside heated premises, providing comfortable conditions for equipment maintenance.

MAXIMUM RELIABILITY AND STABILITY

Y-Trunk was developed by experienced specialists to create trunk multi-channel radio relay links with maximum reliability and stability for the transfer of hybrid traffic at speed up to 450 Mbit / s in each trunk.

MAXIMUM POWER OF RADIO LINK

In full indoor configuration, additional power amplifiers and low-noise amplifiers are used. That allows you to get up to 8 dB power gain. The trunk multiplexer makes it possible to combine several barrels with minimal losses (from 3 dB) for an efficient work on one waveguide.

RELIABLE AND SECURE NETWORK MONITORING

The Micran company presents its updated software “Master M”. The special software allows to receive the segmenting and reservation of control channels, increasing the data transmission speed and failure safety of the control network.



ALL-INDOOR RADIO

Up to 3.6 Gbps

Highest system gain

Easier to maintain and expand

Full lightning protection accept direct strikes

SPECIFICATIONS

SYSTEM GAIN

Radio Features	Transmitter		Receiver
Frequency band, GHz			4...11
Channel Bandwidth, MHz	28/56	28	56
Modulation	Maximum power, output dBm		Sensitivity, dBm BER10 ⁻⁶
16QAM	+35	-83	-80
32QAM	+34	-80	-77
64QAM	+33	-77	-74
128QAM	+32	-74	-71.1
256QAM	+31	-71	-68
512QAM	+30	-68	-65
1024QAM	+30	-65	-62
Power adjustment range 0...-25 dB, step 1 dB manual / ATPC			AGC range ≥50 dB

CAPACITY, MBPS

Modulation	Channel Bandwidth, MHz	
	28	56
16QAM	89.6	156.8
32QAM	112.0	224.0
64QAM	134.4	268.8
128QAM	156.8	313.6
256QAM	179.2	358.4
512QAM	201.6	403.2
1024QAM	224.0	448.0

OTHER

Traffic interfaces	up to 4×Gigabit Ethernet (SFP), 4×STM-1 (SFP), 24×E1 (G.703, 120 Ohm), 12×Fast Ethernet (RJ45)
Wayside channels	2×Fast Ethernet (128 Kbps), Intercom (FXS)
Network Management	NMS "Master M" NP (native protocol) / USB, Ethernet
Protocol / Interface	SNMP / Ethernet (stand-alone SNMP-agent)
ODU-IDU cable	elliptical waveguide
ODU power cable	
Unit Type	IDU
Operating Temperature	+5...+45 °C
Power Consumption	LNA <2 W, PBU <70 W, TRU <70 W, MAU <30 W
Power Supply Voltage	-39...-72 V
Dimensions / Weight	600×600×1850 mm (19", 38U)

TRU – transceiver unit, MAU – main access unit, LNA – low noise amplifier, PBU – power booster unit.