

Y-Split

Split mount radio

FEATURES

- Full range ITU-R frequencies: 4L, 4U, 6L, 6U, 7, 8, 11, 13, 15 GHz
- 16QAM to 1024QAM for longer hops and/or increased capacity
- Low-risk, cost effective migration path from TDM to Hybrid, to all-IP
- High MTBF design and manufacture for ultra-reliability
- Ultra-reliable, scalable and upgradeable for low CAPEX and OPEX

PRODUCT OVERVIEW

MINIMUM INITIAL COSTS

The compact “split” configuration with the “top” mounting of the transmit-receiver allows to minimize the initial costs of creating a network and has no fear of severe climate of northern regions.

TRANSPARENT TRANSMISSION OF EACH TRAFFIC

The in-built stream switch allows to create up to 4 group flows from 4xGE, synchronous (up to 4xSTM-1) and plesiochronous (up to 96xE1) traffic in any combination, which are flexibly distributed by the reservation system between the active trunks of the relay station, according to the established reservation and priority type.

RELIABLE MONITORING AND SECURE MANAGEMENT

“Master M” is a special software that is made according to the client/server architecture. The “Master M” software allows to segment and to reserve control channels, increasing the speed of hardware parameter interrogation and the fault tolerance of control network.



SPLIT MOUNT RADIO

90...450 Mbps

−60...+50 °C

Full lightning protection
accept direct strikes

Ambient cooling

SPECIFICATIONS

SYSTEM GAIN

Radio Features	Transmitter		Receiver			
Frequency band, GHz	4...11	13...15	4...13		15	
Channel Bandwidth, MHz	28/56		28	56	28	56
Modulation	Maximum output power, dBm		Sensitivity, dBm BER10 ⁻⁶			
16QAM	+28	+27	-81	-78	-80	-77
32QAM	+27	+26	-78	-75	-77	-74
64QAM	+26	+25	-75	-72	-74	-71
128QAM	+25	+24	-72	-69	-71	-68
256QAM	+24	+23	-69	-66	-68	-65
512QAM	+23	+22	-66	-63	-65	-62
1024QAM	+23	+22	-63	-60	-62	-59
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	Optical single-mode, up to 15 000 m ODU-IDU distance	
ODU power cable	Electrical, maximum length, m:	
	150 / 250 / 400 vs cable gauge 2×1.5 mm ² / 2×2.5 mm ² / 2×4 mm ² (U _{SUPPLY} = -48 V)	
	350 / 600 / 900 vs cable gauge 2×1.5 mm ² / 2×2.5 mm ² / 2×4 mm ² (U _{SUPPLY} = -60 V)	
Unit Type	ODU	IDU
Operating Temperature	-50 (-60) ...+50 °C (arctic version)	+5...+45 °C
Power Consumption	TRU <60 W	MAU <30 W
Power Supply Voltage	-39...-72 V	
Dimensions / Weight	264×370×125 mm / <10 kg	480×44×240 mm (19", 1U)

TRU – transceiver unit, MAU – main access unit.