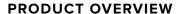
Y-Haul

nLOS compact VHF radio

FEATURES

- Frequency range: 300–700 MHz
- QPSK to 64QAM for longer hops and/or increased capacity
- Different channel bandwidth: 1.75–12 MHz
- Fast Ethernet for Y-Haul TDD and Fast Ethernet plus E1 for Y-Haul FDD Interfaces available



The Y-Haul is a new generation of UHF/VHF point-to-point wireless communication system. It provides TDM and Ethernet data transmitting over incredible long-range distances, supporting up to 29 Mbps of aggregate data traffic. Y-Haul operates over long hops even in nLOS conditions. Compared with dish antennas, Y-Haul's antennas are very light weight and have almost no wind load.

There are two modes available: FDD and TDD. Y-Haul FDD can transport any mix of E1 and Ethernet, while Y-Haul TDD is pure Ethernet. Y-Haul FDD can be configured for 1+0 nonprotected, 2+0 non-protected, 1+1 protected and 1+1 (for critical) / 2+0 (for best effort) modes.



up to 30 Mbps

-50...+50 °C

nLOS peration over long hops

SPECIFICATIONS

Operation mode	FDD (Full duplex)		TDD (Aggregated)			
	Point to Point		Point to Point and Point to Multi Point (16 CPE)			
Frequency band, MHz	390410 / 434450	310360 or 43048			or 430480	
				Tx	power, dBm	
BPSK	_				33	
QPSK	35		32			
16QAM	33		30			
32QAM	32		_			
64QAM	31			· · · · · · · · · · · · · · · · · · ·	30	
Supported bandwidth, MHz	1.86	1.5	3	6	12	
		•	:	Sen	citivity, dBm	
BPSK	_	-98	-95	-92	-89	
QPSK	-95	-95	-92	-89	-86	
16QAM	-89	-89	-86	-83	-80	
32QAM	-84	_	_	_	_	
64QAM	-81	-83	-80	-77	-74	
				Radio channel cap		
	FDD	•		· · · · · · · · · · · · · · · · · · ·	TDD	
BPSK		0.6	1.2	2.4	4.8	
QPSK	2.4	1.2	2.4	4.8	7.2	
16QAM 32QAM	7.2	2.4	4.8 —	7.2 —	14.2	
64QAM	8.8	3.6	7.2	14.2	29	
Traffic interfaces	2xFast Ethernet, 4xE1		1xFast Ethernet			
	NMS "Master M"					
Network Management						
	NP (native protocol) / USB, Ethernet					
Power type	Dedicated cable		РоЕ			
Design	Split (ODU+IDU)		Full ODU			
Operating Temperature				_	50+50 °C	
Power Consumption	<60 W		50 W			
Power Supply Voltage	-3972 V		~220 V AC, -48/-60 V DC			
Dimensions / Weight	ODU: 245×295×120 mm / 10 kg; IDU: 485×240×46 mm / <5 kg		371×264×123 mm / <9 kg			