

IP Microwave Transport Solution

IP IDU

Features

- Frequency covers of 6-26GHz.
- Supports 34Mbps, 100Mbps or 160Mbps Ethernet Payload.
- Supports Layer 2 Switch and VLAN IEEE 802.1Q.
- Supports 1+0 and 1+1 protection.
- Product Model:
 - ✓ ML-MI-IDU34M
 - ✓ ML-GI-IDU100M
 - ✓ ML-GI-IDU160M



Technical Specification

Electrical - System		6GHz	7GHz	8GHz	11GHz	13GHz	15GHz	18GHz	23GHz	26GHz
Frequency Range	GHz	5.925-7.110	7.10-7.90	7.90-8.50	10.67-11.74	12.80-13.20	14.50-15.30	17.70-19.70	21.20-23.60	24.20-26.50
ITU-R Compliance		F.383-7 (Lower) F.384-7 (Upper)	F.385-7	F.386-6	F.387-9	F.497-6	F.636-3	F.595-3	F.637-3	F.748-4
Modulation	34Mbps	QPSK								
	100Mbps	64 QAM								
	160Mbps	128 QAM								
ITU-R RF Tx/Rx Spacing	MHz	252.04 (Lower) 350 (Upper)	154 or 161	119, 126 or 311.32	490, 500 or 530	266	420 or 490	1010 or 1008	1008 or 1232	1008
RF Channel Bandwidth	MHz	28						27.5	28	
Rx Sensitivity @ 10 ⁻⁶ BER (Guaranteed: +2dB)	34Mbps	-83					-82	-81	-80	
	100Mbps	-74.5								
	160Mbps	-68			-67			-66		
Supported RF Configurations		1+0, 1+1								
Radio Protection		Hot standby/ Space diversity / Frequency diversity								
IP Interfaces		IEEE 802.3, 4x10/100Base-T or 1x10/100/1000Base-T								
VLAN	34Mbps	No								
	100Mbps	port based, multi-access and trunk (IEEE 802.1Q)								
	160Mbps	port based, multi-access and trunk (IEEE 802.1Q)								
Throughput (max)	Mbps	34, 100 or 160								
AUX interface		Async (19.2kbit/s) / Sync (64kbit/s), RS-422 protocol, DB-9								
Voice EOW Interface		4-wire, RJ-22								
Monitoring Port Interface	CIT	F-interface, VT-100, via local CIT RS-232, DB-9								
	NMS	Q-interface, SNMP, Ethernet 10/100 Base-T, RJ-45								
Programmable User I/O Interface		4 Inputs 4 Outputs, DB-26								
Power Supply	VDC	-20 to -60								
Power Consumption (per unit)	34Mbps	21								
	100Mbps	25								
	160Mbps	30								
IF Frequencies	MHz	350 (up-conversion), 140 (down-conversion)								
IF Connection on ODU		N-type connector, Belden 9913/RG-8, up to 300m								
RSSI Connection on ODU		BNC								
Remote IDU Access		Out-of-band using radio-overhead and integrated routing								
Mechanical - Per Installation										
Dimensions (H x W x D)	mm	44 x 438 x 280								
Weight	kg	5								
Operational Temperature	°C	-5 to +55								
Operational Altitude Above Mean Sea Level (max)	m	4500								
Operational Humidity (max)	%	≤ 85								
Environmental Compliance		ETS I 300 019								

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