

Technical Specifications

System	Frequency	
	Operating frequency range	37 – 38.6, 38.6 – 40 GHz
	Frequency source	Synthesizer.
	Tx – Rx spacing	700 MHz
	Compatible standards	ETSI EN 300 197 ITU-R REC. 749 FCC part 101
	RF channel selection	Configured by management software
Modulation	Capacity	OC-3 or equivalent
	RF channel spacing	50MHz
	Modulation type	16 QAM
	Frequency stability	±10 ppm
System Gain	Max. power output	15 dBm (30 mW)
	Receiver Sensitivity (BER=10 ⁻⁶)	-70dBm (with FEC)
	Receiver Overload (BER=10 ⁻⁶)	-15dBm
	Unfaded BER	Better than 10 ⁻¹³
Payload	<i>155.52 Mb/s Main Channel</i>	
	Payload types	SONET OC-3 / STS-3c, ATM over SONET or PPP over SONET
	Physical Interfaces	Electrical CMI, UTP, STP. Optical single-mode, multi-mode, long-haul and short-haul.
	Compatible standards	ANSI T1.105, Bellcore GR-253-core

	ITU-T G.703, G.707, G.783, G.957, G.958 ITU-T I.432, ATM Forum ETSI ETS 300 147
<i>2048 kb/s Wayside channel</i>	
Available Interfaces	E1 per ITU-T G. 703, V.35, X.21, RS-530 or V.36, Ethernet bridge (RJ-45)
<i>64 kb/s User Channel</i>	
Available Interfaces	V.24, V.35, X.21, RS-530 or V.36 Ethernet bridge (RJ-45)
	An asynchronous V.24 interface at up to 19200 BPS is also available.
<i>Service Channel</i>	
Engineering Order wire	64 kb/s Audio Channel
All interface for main, Wayside and user channels are available via modular, plug-in interface, units.	
<i>Network management, Diagnostics, Status and alarms</i>	
Type	SNMP In compliance with RFC 1595 (SONET MIB)
NMS interface	Ethernet 10BaseT and RS-232C/V.24 (SLIP)
Routing	Internal IP routing
Local or remote NMS station	GiganetView with advanced GUI for Windows 95/ NT or UNIX TM, integrated with OpenView (option).
TMN	Giganet NMS functions are in accordance with ITU-T recommendations for TMN. Interconnecting to TMN is available via Q3 interface (option).
External Alarm Inputs	8, TTL-level or contact closure to ground.
External Alarm Outputs	5, Form C contact, Software configurable.
Loopbacks	IDU, Remote, Line.
RSL Indication	Available at IDU, ODU and MNS.
Performance Monitoring	Integral with on board memory per ITU-T G.826.
Front Panel Indications	Power, IDU, ODU, CABLE, REMOTE, BER,

		LINE and LOF alarms, LOOPBACK
Environmental	Operating Temperature	ODU -30 to +55°C IDU 0 to +40°C
	Relative Humidity	ODU Up to 100% (all weather operation) IDU Up to 95%, non-condensing
	Altitude	up to 4500 m (15000 ft).
Power	Standard Input	-48V DC
	DC input range	-40.5V to -72V DC
Mechanical	Dimensions	
	ODU	25cm dia. x 20cm depth (10"dia.x 8"depth)
	IDU	4.3 cm H x 43.2 cm W x 24.0 cm D (1.7"x 17"x 9.4")
	IDU-ODU coaxial cable recommended cable connectors	up to 300m (1000 feet) RG-8 or equivalent N-type (male)
Antenna	Diameter	1 foot 2 feet
	Low profile	
	Gain	39dBi 45dBi
	Beam width	1.6° 0.8°
	Polarization	Vertical or Horizontal
	Std Mounting – OD pole	48 mm – 114mm (1.9"-4.5")