

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

2048 kb/s Wayside channel

Available Interfaces E1 per ITU-T G. 703,
V.35, X.21, RS-530 or V.36,
Ethernet bridge (RJ-45)

64 kb/s User Channel

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.

Service Channel

Engineering Order wire 64 kb/s Audio Channel

All interface for main, Wayside and user channels are available via
modular, plug-in interface, units.

Network management, Diagnostics, Status and alarms

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")