

NT-5048 LR2

NEO-Tera Serie 5000 offer you the best cost effective and high professional solution to build private or public robust data networks. All the series modules can operate in different modes (P-P, P-M) and frequency bands (5.2Ghz-5.8Ghz) with just a simple configuration selection, giving you a very high flexibility and costs savings.



Benefits:

- ♦ Very fast installation and configuration
- ♦ Cost savings: flexibility / modularity / NoLOS
- ♦ Scalability / Linear costs
- ♦ High Availability and Quality of Service
- ♦ All in one solution : Bridge + Advanced Router
- ♦ Multi-Topologies: P-P, P-MP, Mesh, Ring, Redundancy, etc.



NEO-Tera NT-5048 LR2 is an ODU (Outdoor Unit) designed to work like a end of a point-to-point space and frequency diversity link. Its integrated design is based on a high availability hardware and software capable to handle up to 200Mbps of data throughput with a very high quality panel antenna reaching up to 80Km. It is not a simple bridge, it is also an advanced router with VPN server, VLAN/trunking, MPLS, QoS and other upper level features.

Technical Specifications



General

Operation Frequency	Multi Band	Operating Mode	
Band 1	5.150GHz~5.250GHz	P-P	✓
Band 2	5.250GHz~5.350GHz	P-MP	✓
Band 3	5.470GHz~5.725GHz	Mesh	✓
Band 4	5.725GHz~5.850GHz	Dual Radio	✓
		NoLOS	✓
Link		Power Supply	
Link type	Ethernet / IP	PoE (Power Over Ethernet)	IEEE.802.11af (*)
Traffic Balance	Sim / Asim	Voltage Rating	220VAC/14-60VDC
Throughput (L3)	200Mbps	Power Consumption	15W
Link Reach (Typ)		EDS Protection	ITU-T K.12 (*)
P-P	80Km		

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Radio Specifications

Radio MAC/PHY

Transmission Protocol	Pre-WiMax
Modulation	OFDM/ MIMO
Modulation Technique	4x (BPSK / QPSK / 16QAM / 64QAM)

Access Method	TDMA
Duplexing	FDD-TDD ¹
Central Frequency Resolution	5Mhz
Channel Width	5/10/20/40MHz

(¹)Note: Version dependent

Tx Power

TX Power @ 64QAM	21dbm
TX Power @ BPSK	26dbm
ERIP (Typ)	52db

RX Sensitivity

RX Sensit. @ 64QAM	-74dbm
RX Sensit.@ BPSK	-94dbm

Advanced Features

VPN	L2/L3/L4
VLAN	IEEE802.1q
Tunneling	EoIP
Encryption	WEP / WPA / DES / AES

Routing

Static Routing	✓
MPLS / VRF	✓
OSPF / RIP/ BGP/ PIM/ IGMP	✓
VRRP (High Availability)	✓

Quality of Service (QoS)

Traffic Shaping	✓
Load Balancing; Broadcast control	✓
Bandwidth Control	CIR / MIR / Bursting

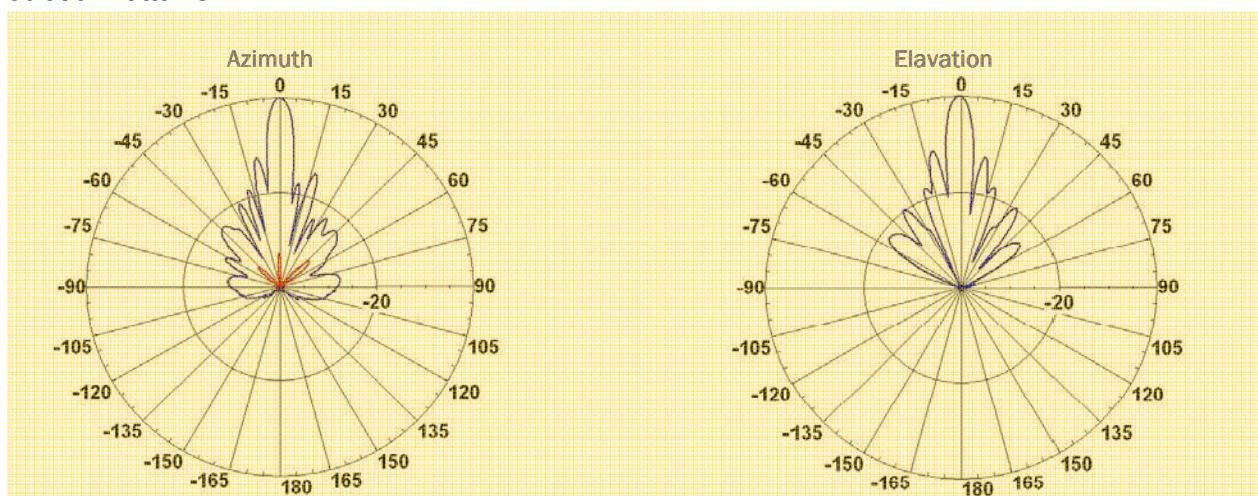
Management & Monitoring

SNMP	RFC 1592
Graphical Interface (GUI)	WinXP/Win7/Linux

Integrated Antenna

Gain / Diversity	28dbi / Space
Polarization	Dual
Directivity	4°
Cross Polar. Discrimination	-28db
F/B Ratio	-38db
Lightning Protection	DC Grounded

Radiation Patterns



NT-5048 LR2

Enviromental

Wind Load (Side)	8,6Kg
Humidity	95%
Enclosure Material	Aluminum
Wind Speed Survival	220Km/h

TEST	STANDARD	DURATION	TEMPERATURE	NOTES
Low Temperature	IEC 68-2-1	72 h	-45°C	
High Tempreature	IEC 68-2-2	72 h	+70°C	
Temp. Cycling	IEC 68-2-14	1 h	-45°C ~ +70°C	3 Cycles
Vibrations	IEC 60721-3-4	30 min/axis		Random4M3
Shock Mechanical	IEC 60721-3-4			4M3
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	1000 h		
Flammability	UL 94			Class HB
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice and Snow				25mm Radial

Mechanical

Physical Specification	
Dimensions LxWxD	600x600X100mm
Weight	15,5Kg
Wind Speed Operation	160Km/h
Wind Load (Front)	103Kg

