

NT-4046 ST (Standard Version)

NEO-Tera Serie 4000 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 (4.4Ghz-6.1Ghz) , 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



NEO-Tera NT-4046 ST is an ODU (Outdoor Unit) based on a redundant radio and dual polarization antenna design, offering high availability and performance. Designed to work like a end of a point-to-point link or even like a remote station within a multipoint network, it is capable to handle up to 45Mbps of data throughput, reaching up to 25Km. It is not a simple bridge, it is also an advanced router with VPN server, VLAN/trunking, QoS and other upper level features.

Technical Specifications



General

Operation Frequency		Operating Mode	
Band 1 (Standard Version)	4.94GHz~4.90GHz	P-P	✓
Band 2	5.15GHz~5.89GHz	P-MP	✓
Band 3	4.4GHz~4.85GHz	Mesh	✓
Band 4		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)	50Mbps	Power Consumption	15W
Link Reach (Typ)		EDS Protection	ITU-T K.12 (*)
P-P	25Km		
P-MP	15Km		

NT-4046 ST

Radio Specifications

Radio MAC/PHY

Transmission Protocol	Pre-WiMax
Modulation	OFDM/ MIMO
Modulation Technique	2x (BPSK / QPSK / 16QAM / 64QAM)
Access Method	TDMA
Duplexing	TDD/TDM
Central Frequency Resolution	5MHz
Channel Width	5/10/20/40MHz

Tx Power (Typ)

TX Power @ 64QAM	21dbm
TX Power @ BPSK	25dbm
ERIP (Typ)	46db

RX Sensitivity

RX Sensit. @ 64QAM	-84dbm
RX Sensit.@ BPSK	-97dbm

Advanced Features

VPN

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

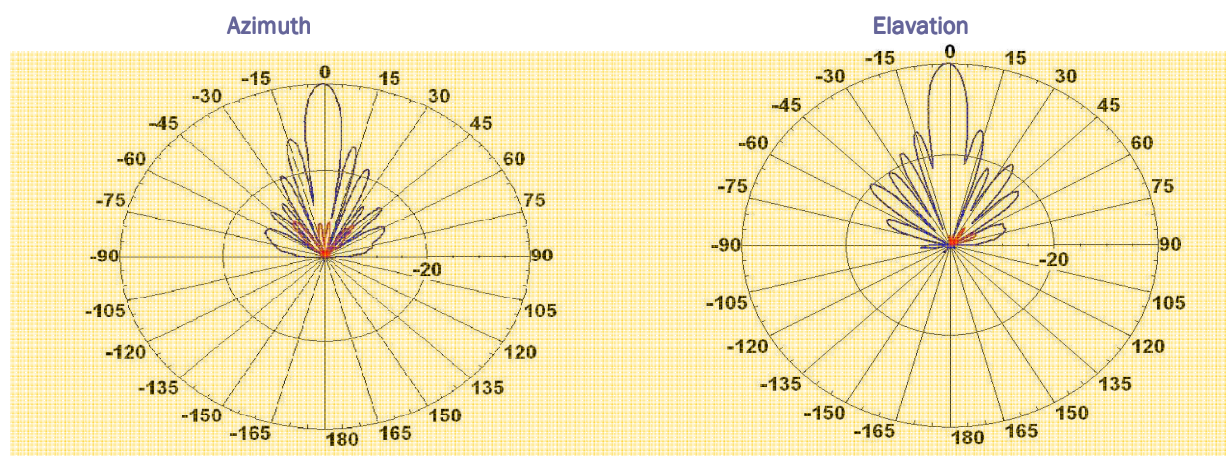
Management & Monitoring

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

Integrated Antenna

Gain / Diversity	22dbi
Polarization	Dual
Directivity	9°
Cross Polar. Discrimination	-28db
F/B Ratio	-35db
Lightning Protection	DC Grounded

Radiation Patterns



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NT-4046 ST

Enviromental

Wind Load (Side)	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 Temperature	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	371x371x110mm
Weight	5,8Kg
Wind Speed Operation	160Km/h
Wind Load (Front)	47Kg

