

NT-9036 ST

NEO-Tera Serie 9000 offer you the best cost effective and high professional solution for 900-928MHz frequency band, to build private or public robust data networks. All the series modules can operate in different modes (P-P, P-M), 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-9036ST is an ODU (Outdoor Unit) designed to work like a end of a point-to-point link or like a remote station within a multipoint network. Its integrated design is based on a high availability hardware and software capable to handle up to 45Mbps of data throughput with a very high quality panel antenna reaching up to 50Km. 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

Band 1	902MHz~928MHz
Band 2	N/A

Operating Mode

P-P	✓
P-MP	✓
Mesh	✓
Dual Radio	✓
NoLOS	✓

Link

Link type	Ethernet / IP
Traffic Balance	Sim / Asim
Throughput (L3)	45Mbps
Link Reach (Typ)	
P-P	50Km
P-MP	30Km

Power Supply

PoE (Power Over Ethernet)	IEEE.802.11af (*)
Voltage Rating	220VAC/14-60VDC
Power Consumption	15W
EDS Protection	ITU-T K.12 (*)

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Radio Specifications

Radio MAC/PHY

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

Tx Power

TX Power @ 64QAM	24dbm
TX Power @ BPSK	28dbm
ERIP (Typ)	38db

RX Sensitivity

RX Sensit. @ 64QAM	-72dbm
RX Sensit.@ BPSK	-92dbm

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

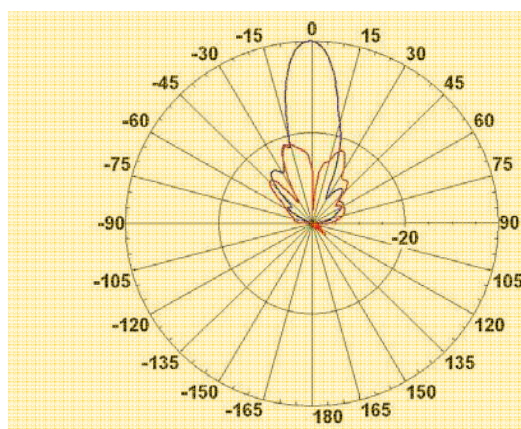
SNMP	RFC 1592
Graphical Interface (GUI)	WinXP/Win7/Linux

Integrated Antenna

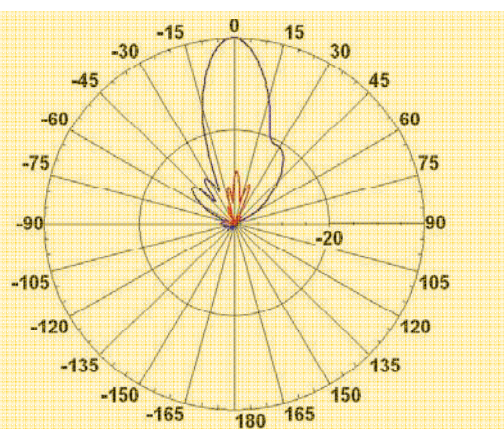
Gain / Diversity	9dbi
Polarization	V/H
Directivity	50°
Cross Polar. Discrimination	-13db
F/B Ratio	-35db
Lightning Protection	DC Grounded

Radiation Patterns

Azimuth



Elavation



NT-9036 ST

Enviromental

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

TEST	STANDARD	DURATION	TEMPERTURE	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	305x305X75mm
Weight	5,8Kg
Wind Speed Operation	160Km/h
Wind Load (Front)	47Kg

