

NT-3042 ST (Standard Version)

NEO-Tera Serie 3000 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 (3,40Ghz-3,7Ghz) 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-3042ST 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 30Km. 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	3,40GHz~3,70GHz
Band 2	
Band 3	
Band 4	

Link

Link type	Ethernet / IP
Traffic Balance	Sim / Asim
Throughput (L3)	45Mbps
Link Reach (Typ)	
P-P	30Km
P-MP	15Km

Operating Mode

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

Power Supply

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

NT-3042 ST

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	18dbm
TX Power @ BPSK	25dbm
ERIP (Typ)	42db

RX Sensitivity

RX Sensit. @ 64QAM	-73dbm
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	

L2/L3/L4

	✓
	✓
CIR / MIR / Bursting	

Management & Monitoring

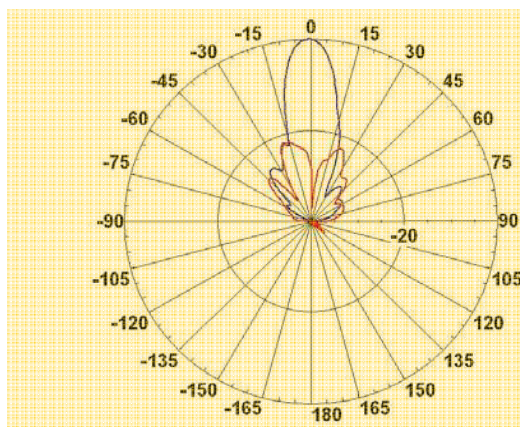
SNMP	RFC 1592
Graphical Interface (GUI)	WinXP/Win7/Linux

Integrated Antenna

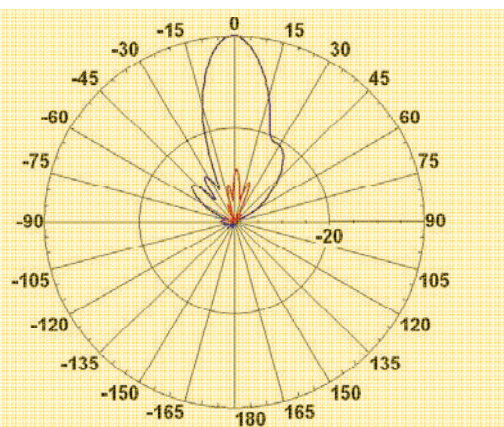
Gain / Diversity	17dbi
Polarization	V/H
Directivity	9°
Cross Polar. Discrimination	-28db
F/B Ratio	-35db
Lightning Protection	DC Grounded

Radiation Patterns

Azimuth



Elavation



NT-3042 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

