NEO-Tera 4000

High Performance Wireless Technology

NT-4525 HS3

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, etc.**

NEO-Tera NT-4525 HS3 is an ODU (Outdoor Unit) based on a redundant radio and dual polarization antenna design, offreing 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 250Mbps of data throughput, 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	4.85GHz~6.1GHz	Dual Radio	✓
		NoLOS	✓

Link		Power Supply	
Link type	Ethernet / IP		
Traffic Balance	Sim / Asim	PoE (Power Over Ethernet)	IEEE.802.11af (*)
Throughput (L3)	250Mbps	Voltage Rating	220VAC/14-60VDC
Link Reach (Typ)		Power Consumption	15W
P-P	30Km	EDS Protection	ITU-T K.12 (*)
P-MP	20Km		

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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	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)	25dbm

RX Sensitivity

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

Advanced Features

VPN	L2/L3/L4	**Quality of Service (QoS)**	L2/L3/L4
VLAN	IEEE802.1q	Traffic Shaping	✓
Tunneling	EoIP	Load Balancing; Broadcast control	✓
Encryption	WEP / WPA / AES	Bandwidth Control	CIR / MIR / Bursting
Routing		**Management & Monitoring**	
Static Routing	✓	SNMP	RFC 1592
MPLS / VRF	✓	Graphical Interface (GUI)	WinXP/Win7/Linux
OSPF / RIP/ BGP/ PIM/ IGMP	✓		
VRRP (High Availability)	✓		

Enviromental

Wind Load (Side)	4,2Kg
Humidity	95%
Enclosure Material	Aluminum
Wind Speed Survival	220Km/h

Mehanical

Physical Specification

Dimensions LxWxD	310x200X90mm
Weight	3,4Kg
Wind Speed Operation	160Km/h
Wind Load (Front)	5,3Kg