



NEP5500-16E

Features

Product Description

NEP5500-16E complies with IEEE802.3ah and PRC Community Industry Standard (YD/T 1475-2006), and fully abides by the CTC2.1/3.0 standard. NEP5500-16E can automatically discover and work harmoniously with ONUs made by different manufacturers to build efficient EPON solutions.

Item	Description
Network Availability	➤ STP/RSTP/MSTP ➤ BPDU guard ➤ EAPS
Management	➤ CLI, SNMP, Telnet, HTTP/HTTPS ➤ Software upgrade through TFTP/FTP ➤ Debug output
Network Security	➤ Limiting the maximum number of users on each port ➤ Port isolation ➤ Packet storm control ➤ Flow-based ACL access control function ➤ Transmission data encryption on the PON port
DHCP Function	➤ Server/Relay/Client ➤ DHCP snooping ➤ DHCP option 66,67,82 ➤ DAI ➤ IP source guard
Reliability	➤ Unidirectional Link Detection (UDLD) ➤ Hot swap of the EPON optical module on the expanded slot ➤ Optical link protection of EPON ➤ Abnormal luminescence ONU detection such as long luminescence
QoS	➤ Backpressure flow control (half duplex) ➤ IEEE 802.3x flow control (full duplex) ➤ IEEE 802.1p, CoS ➤ WRR, SP and FIFO ➤ ONU-based uplink/downlink rate limit ➤ DBA and SLA
Layer Function	3 ➤ Static routing, RIPv1/v2, OSPF ➤ RIP, OSPF, RIPv3, OSPFv3

Item	Description
Multicast	➤ IGMP Snooping ➤ Controllable Multicast
VLAN	➤ Port-based VLAN ➤ QinQ and flexible QinQ
Standards	➤ IEEE 802.3ah ➤ YD-T 1475-2006 ➤ YD-T 1771-2008 ➤ China Telecom EPON Technical Requirement CTC2.1/3.0 ➤ IEEE 802.1D/1W, Spanning Tree, RSTP; IEEE 802.1Q, VLAN ➤ IEEE 802.3ad-based LACP ➤ Ethernet-II

Item	Description
PON ports	4
GE uplink	4 GE TX
10GE uplink	4 10GE/GE SFP+
Supported GPON SFP module	PX20+, PX20++, PX20+++
RJ45 console	1
Mini-USB console	1
DRAM (MB)	512
Flash (MB)	32
Backplane (Gbps)	128
MAC table	16K
Buffer size (MB)	3
Jumbo frame (KB)	2
IPv4 routing table	6K

IPv6 routing table	2K
Active VLAN	4,094
SVI number	128
Forwarding mode	Store-and-forward