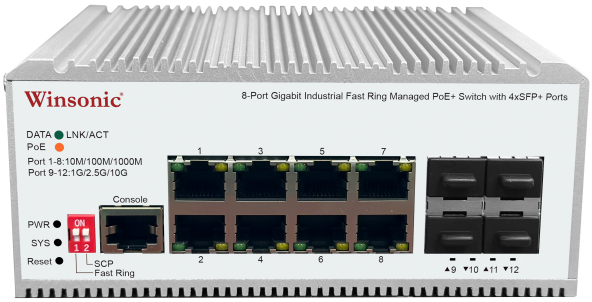
NE11001-30844A



Overview

NE11001-30844A is a L3 managed industrial PoE switch developed independently. It has 8*10/100/1000Mbps RJ45 ports, 4 10Gbps SFP+ fiber module expansion slots and 1 Console port to flexibly expand your network. Among them, ports 1 to 8 have PoE power supply function, support IEEE802.3af/at/bt standard, support static routing function, provide security policy, QoS policy and rich VLAN function, with ring network function, can form a ring network, allow to switch between each other in a hand-in-hand manner. This ring topology offers redundancy and high reliability, ensuring that even if a link is disconnected at any point, data forwarding within the network remains unaffected.

The device uses store and forward, no fan, low power design, easy to use, and simple installation. The product is designed in line with Ethernet standard, with lightning protection, electrostatic protection mechanism, operating temperature range of -40°C ~ 75°C, stable performance, safe and reliable, can be widely used in intelligent transportation, telecommunications, security, financial securities, customs and other broadband data transmission fields.

Features

- PoE supports IEEE802.3bt standards, with a maximum output of 90W per port.
- Data transmission and power supply distance up to 100 meters;
- Support IEEE802.3x full duplex flow control and Backpressure half duplex flow control;
- Panel indicator to monitor working status and help fault analysis;
- Aluminum alloy high energy roof heat conduction groove design;
- Supports one-key ring network and one-key storm suppression function, with redundant design and high reliability;
- High reliability design, support the traditional STP/MSTP/RSTP Layer 2 link protection technology;
- Supports static aggregation and dynamic aggregation (LACP), which increases link bandwidth, improves link reliability, implements load balancing, and link backup.
- Flexible and convenient management and maintenance Support Console, Telnet, SSH and other management modes;
- Supports WEB management, which is simple and efficient, and convenient for installation and commissioning by engineering and maintenance personnel.
- Supports HTTP, TFTP, and FTP file upload and download management.

Specifications
Hardware function

Model	NE11001-30844A
Standard	IEEE802.3,IEEE802.3u,IEEE802.3ab,IEEE802.3z,IEEE802.3x,IEEE802.1X,IEEE802.1q , IEEE802.1p,IEEE802.1d,IEEE802.1w, IEEE802.3ad,IEEE802.3af,IEEE802.3at, IEEE802.3bt
Interface	8*10/100/1000Mbps RJ45 Ports 4* 10Gbps SFP+ Slots 1*Console Port
Indicator	PWR(Green), LNK/ACT(Green), PoE(Orange), SYS(Green)
Network Media	10BASE-T:UTP category 3,4,5 cable （≤100m） 100BASE-TX:UTP category 5, 5e cable（≤100m） 1000BASE-X:UTP category 5e, 5 cable（≤100m） 1000BASE-X:MMF, SMF 10GBASE-X:MMF, SMF
MAC Address Table	16K, Auto-learning, Auto-update
Jumbo Frame	12KByte
Packet Buffer	12Mbit
Transfer Mode	Store-and-forward
Switching Capacity	96Gbps
Packet Forward Speed	71.42Mpps
Dimensions(L*W*H)	145*109*62mm
Input voltage	48-57V DC
Input Power Supply	Port 1-8
PoE Output	90W(Max)
PoE Power On RJ45	1/2 (-)3/6 (+),4/5(+)7/8(-)
PoE Power Budget	320W
Power Supply	350W
Operating Temperature	-40°C ~ 75°C
Storage Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing
Surge Protection	Differential mode ±2KV , Common mode ±4KV
Electrostatic Standard	Contact ±6KV, Air ±8KV
MTBF	>50000 hours

Software Specification

L3 Features	**DHCP Server**	DHCP Server
		DHCPv6 Server
	Route	Static Route(IPV4/IPV6)
		Route Aggregation
	RIP	RIP v1/v2
	OSPF	OSPF v2
	BGP	BGP4
L2 Features	**MAC Address Table**	MAC Aging Time
		MAC Filter
		MAC Notification
	Basic Management	Console/Telnet/SSH
		Http/Https,SSL/TLS
		FTP/TFTP
		Syslog
		SNMP(v1/v2c/v3),SNMP Trap
		SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute
	Port Config	Bandwidth Control
		Flow Control
		EEE
		MTU
		CFM(802.1ag)
		EFM OAM(802.3ah)
		DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
		ULDP/Cisco UDLD
	Discovery	LLDP(802.1ab)
		LLDP-MED
	Link Aggregation	Static
		LACP(802.3ad)
		Load Balance(src-mac/dst-mac/src-ip/dst-ip)
		Max groups and ports per group
	VLAN	VLAN(802.1Q 4K)
		Access/Trunk/Hybrid
		Private VLAN
		VLAN Filter
		MAC-based VLAN
		Protocol-based VLAN
		IP Subnet-based VLAN
		Voice VLAN
		GVRP/GMRP
		QinQ/Selective-QinQ/Flexible QinQ
		VLAN Translation/N:1 VLAN Translation
		Guest VLAN
	Network Loop Detection	Loopback Detection
		ERPS
	Spanning Tree	STP/RSTP/MSTP
		MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel

L2 Features	**ARP**	Static ARP
		ARP Scanning Prevention
		ARP Spoofing Prevention
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
		ARP Quantity Control
IPv4 Related Function	**ICMP**	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	Control Multicast	DCSCM
	Multicast VALN	Multicast VALN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	DHCP	DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
IPv6 Related Function	**IPv6 Basic**	IPv6 ND Snooping
	DHCPv6	DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
	IPv6 Features	SNMP over IPv6 Support
		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
		IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPSec Support
		IPv6 ACL
QoS(Quality Of Service)	**Basic**	Trust COS/DSCP
		Trust Port
	Scheduling	SP
		WRR
		WDRR
	PolicyMap Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
		Ingress PolicyMap
	Policing	CAR Stream Shaping(leak algorithm)
		Ingress Policing
		COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
		drop-precedence
	Rewrite	internal-priority
		Ingress/Egress Rewrite
	Queuing	DSCP to DSCP mapping
QoS(Quality Of Service)	**Queuing**	DSCP to DP mapping

		DSCP to Queue mapping
		COS to DP mapping
		COS to Queue mapping
ACL	**IP-ACL**	SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
	MAC-ACL	SRC/DST MAC
		VLAN
		COS
		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Base on user defined profile
	ACL Features	Based on time period ACL
		ACL on VLAN
		Based on ACL Stream
Security	**802.1x**	Port Based Authentication
		Support EAPoR
		MAC based Authentication
		Guest VLAN
	MAB	Based on Port Authentication
		Based on MAC Authentication
	MAC Address Count Limit	Based on Port
		Based on VLAN
	IP Address Count Limit	Based on Port
		Based on VLAN
	Access Management	Based on source mac and IP address
	Deny DoS Attack	TCP Flag
		TCP Flagment
		IP Segment
		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
Redundancy Related Function	**MRPP**	Compatiable ERRP
	ULPP	Uplink Protection Protocol
		Smart Link/Monitor Link
	ULSM	Uplink State Monitor
Flow Monitor Function	**Mirror**	Support one to one, multi to one
		Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN
PoE	**PoE Management**	ON/OFF Config
		Alive Checking for PD
		7/24 On/Off Scheduling

Ordering Information

Model	**Product Information**
NE11001-30844A	8GE+4*10G SFP+ L3 Managed PoE Industrial Switch