Overview

To satisfy the increasing demand of PoE for Gigabit Ethernet (GbE) networking, N-net has developed this series of PoE GbE switch. The NT-35MG16T2GF provides an ideal solution for LAN implementation.

This product is equipped with (16)10/100/1000M Base-T Gigabit Ethernet RJ45 ports, supporting IEEE 802.3af/ at standard, and (2) 1000Base-X SFP interfaces. One of the highest output power is 30W.

The NT-35MG16T2GF supports 300-watt PoE budget to drive up to 16 powered devices, with up to 30W of MAX power per port. The PoE feature enables the NT-35MG16T2GF an efficient and cost-effective solution for SMB, SOHO or other similar fields to deploy the PoE network for the wireless access points, IP-based surveillance cameras or IP phones anywhere easily and efficiently.

Features

✧ Built-in efficient switching core to implement flow control and reduce broadcast packets
✧ Standard Compliance：IEEE802.3 Ethernet,
　　　　　　　　　　　IEEE802.3u Fast Ethernet,
　　　　　　　　　　　IEEE802.3ab Gigabit Ethernet
　　　　　　　　　　　IEEE802.3x Flow Control,
　　　　　　　　　　　IEEE 802.1p QoS
✧ 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X, compatible with various Ethernet devices
　　Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMPSnooping,
　　DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
✧ Store-and-forward mechanism is employed to avoid packet loss and error frames
✧ Support spanning tree STP(802.1D) and RSTP(802.1W).
✧ G.8032, support <50ms industrial quick ring protection
✧ Jumbo frames support a maximum of 12.2 kilobytes.
✧ Support cable diagnosis
✧ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP. Copper ports support ESD protection
✧ Support PoE power supply up to maximum of 30W per port
✧ IEEE 802.3af and 802.3at.
✧ Supports per port PoE configuration function

❖ **Hardware Specification**

Parameter	Specification
Access mode	10/100/1000Mbps
Standard	IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet, IEEE802.3ab Gigabit Ethernet, IEEE802.3x Flow Control, IEEE 802.1p QoS IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE802.3af PoE, IEEE802.3at PoE+,
10/100/1000 Base-T ports	16 ports
1000 Base-X	2 ports SFP
Conversion means	Store and Forward
System switching bandwidth	52Gbps
Packet forwarding rate	26.8Mpps
Packet buffer	4M bit
Maximum Frame Size	12.2 kilobytes
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Address table	8KB
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 12 groups Up to 16 ports per group
MTBF	30,000 hours
LED indicator	Power : PWR (1~16)UTP Port: SPD, L/A, PoE ，SFP：
Power supply	Power Input Range: 100~240V AC
Power Requirement	100~240V AC, 50/60Hz, 4A
Power Capacity	300W
PoE Power Pins	RJ45 Pins 1 and 2 for PoE(+); 3 and 6 for PoE(-)
Operating temperature	-25 ºC ~+70ºC
Operating humidity	5%~90% non-condensing
Storage Temperature	-40~+70ºC
Storage humidity	5%~90% non-condensing
Dimensions	440 x 280 x 44 (mm)
Weight	5.5kg

❖ **Layer 2 Function**

Parameter	Specifications
Port Configuration	Port disable / enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable / enable
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status and trunk status
Port Mirroring	TX / RX / Both Many-to-1 monitor
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
ACLs	Support for up to 256 entries Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
Link Aggregation	1 group of 2-Port 10/100/1000Base-T trunk supported
QoS	Allow to assign low / high priority on each port First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
IGMP (v1/v2) Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported)
Security Control	MAC address binding TCP & UDP filter

❖ **Management Functions**

Parameter	Specifications
Basic Management Interfaces	Web Browser, SNMP v1

Instruction:

1.   Front board have 19 ports, Provide 16x 10/100/1000Mbps downlink PoE Ethernet Ports, 2x1000Mbps uplink SFP Ports, and 1x console ports.

2.   LED Indicator State:

Power: 1 Green light indicates that the power normal work;

SFP: 2 Green lights indicate that the SFP ports is enable

POE: 16 Green lights indicate that the POE is power on;

Ethernet: 16 Green lights indicate 10/100M Ethernet link and speed;

Ethernet: 16 Green lights indicate 10/100M/1000M Ethernet link and speed;

Installation step

Please check below device and accessories before installation, if there are missing, please contact with your supplier.

1.   PoE Switch   1PCS
2.   User Manual   1PCS

◆ Please turn off the signal source and the device's power before installing, installation with power on may damage the device;

◆ Use 16 network cables to connect 16 IP cameras with Ethernet switch's 1~16 PoE port;

◆ Use network cable to connect Ethernet switch's UPLINK port with NVR or Other Device;

◆ Check if the installation is correct and device is good, make sure all the connection is reliable and power for the system;

◆ Connect the power outlet and the switch with the power cord.

◆ Make sure every network device has power supply and work normally.

Application
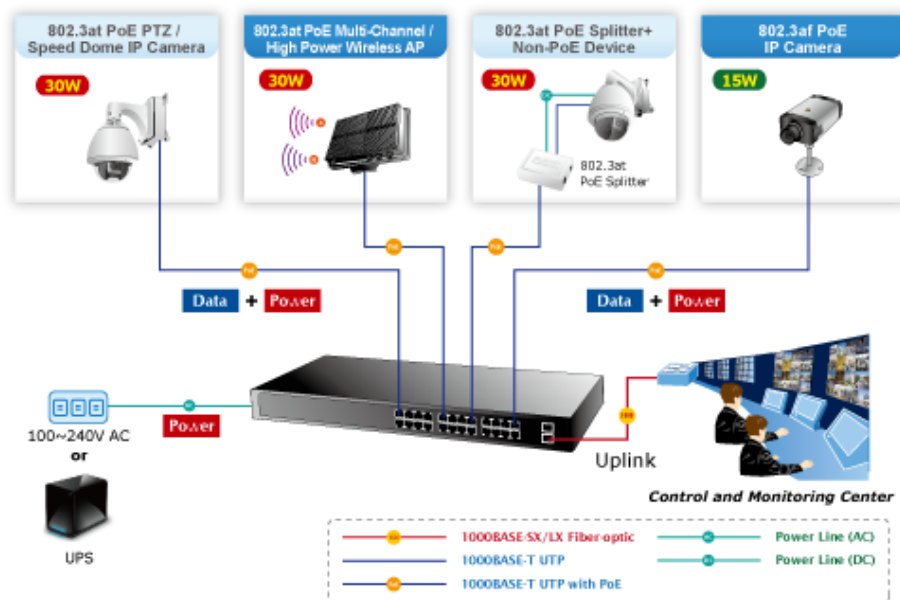
Order information

Model	Description
NT-35MG16T2GF–AF16	Management PoE+ Gigabit Ethernet Switch, (16) 10/100/1000Mbps downlink PoE Ethernet Ports, and (2) 1000Mbps uplink SFP Ports, POE output IEEE802.3af standard.300W