Web Smart Gigabit Switch

1 Fiber Port and 5 Ethernet ports

NT-MG1500 Series

❖ **Overview**

The NT-MG1500 offers wire-speed packet transfer performance with 12Gbps non-blocking switch fabric, 8k MAC Address table and 802.3x Full-Duplex flow control.

NT-MG1500 can be programmed for basic Switch management functions such as per port speed duplex settings, Port Trunking, VLAN, Port Mirroring, Rapid Spanning Tree, etc. Additionally, the firmware includes advanced features such as IGMP snooping, QoS (Quality of Service), broadcast storm and bandwidth control, to enhance bandwidth utilization.

NT-MG1500supports standard Simple Network Management Protocol (SNMP) and can be monitored via any standard-based management software. These features provide a cost-effective way to manage the device from the Internet whenever you are working or at home.

❖ **Key Feature**

◇ Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX Ethernet standard
◇ 5-Port 10/100/1000Mbps Gigabit Ethernet ports with 1-port fiber port
◇ Auto-MDI/MDI-X detection on each RJ-45 port supports CSMA/CD protocol
◇ Prevents packet loss with back pressure (Half-Duplex) and 802.3x PAUSE frame flow control(Full-Duplex)
◇ 8K MAC address table, automatic source address learning and ageing
◇ 12Gbps switch fabric, non-blocking switch architecture
◇ 9K Jumbo Frame supports at all speed (10/100/1000Mbps)
◇ Supports Port-Based and 802.1Q VLAN function, up to 64 VLAN groups
◇ Supports IEEE 802.1w Rapid-Spanning Tree protocol(RSTP)
◇ Link Aggregation supports static mode and LACP (IEEE 802.3ad) - up to 4 trunk groups, Each trunk is maximum up to 6 ports
◇ IGMP Snooping for multicast filtering, supports v1 and v2
◇ Support DHCP option 60 and option 82
◇ Multicast and Broadcast Storm Control as well as Flooding Control
◇ Port Mirroring support for dedicated port monitoring
◇ 802.1X Port-Base access control, RADIUS Server Authentication
◇ Static MAC Address assigns destination MAC address at specifc port
◇ Remote Web management interface
◇ Firmware upgrade through Web interface
◇ Cable Diagnostics technology
◇ Supports SNMPv1 with RFC-1213/1573-Interface group and RMON Group 1 (Statistics) SNMP Trap

❖ **Specification**

Parameter	Specifications
Access mode	10/100/1000Mbps Gigabit Ethernet
Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000Base-T IEEE 802.3z Gigabit 1000Base-SX/LX IEEE 802.3x Flow Control IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning tree protocol IEEE 802.1w Rapid spanning tree protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control
Copper Ports	5-port 10/ 100/1000Base-T RJ-45 Auto-MDI/MDI-X ports
Wavelength	850nm/1310nm/1550nm
Transmission distance	Multi-mode Dual-fiber: 220m (62.5/125µm)/550m (50/125µm) Single mode Dual-fiber: 20/40/60/80/100km(9/125µm) Single mode single-fiber: 20/40/60km(9/125µm) Category-5 twisted pairs: 100m
Port	Five RJ45 port: Connecting with STP/UTP category-5/5e twisted pairs, EIA568A/B One optical port: Multi-mode Dual-fiber: SC/LC(SFP) (50, 62.5/125µm) Single mode Dual-fiber: SC/FC/LC(SFP) (9/125µm) Single mode Single-fiber: SC/FC (9/125µm)
Switch Fabric	12Gbps / non-blocking
Switch Throughput	8.9Mpps
Address Table	8K MAC address table with Auto learning function
Share Data Buffer	136K bytes on chip
Flow Control	Back pressure for Half-Duplex IEEE 802.3x Pause Frame for Full-Duplex
Jumbo Frame	Max to 9K Bytes

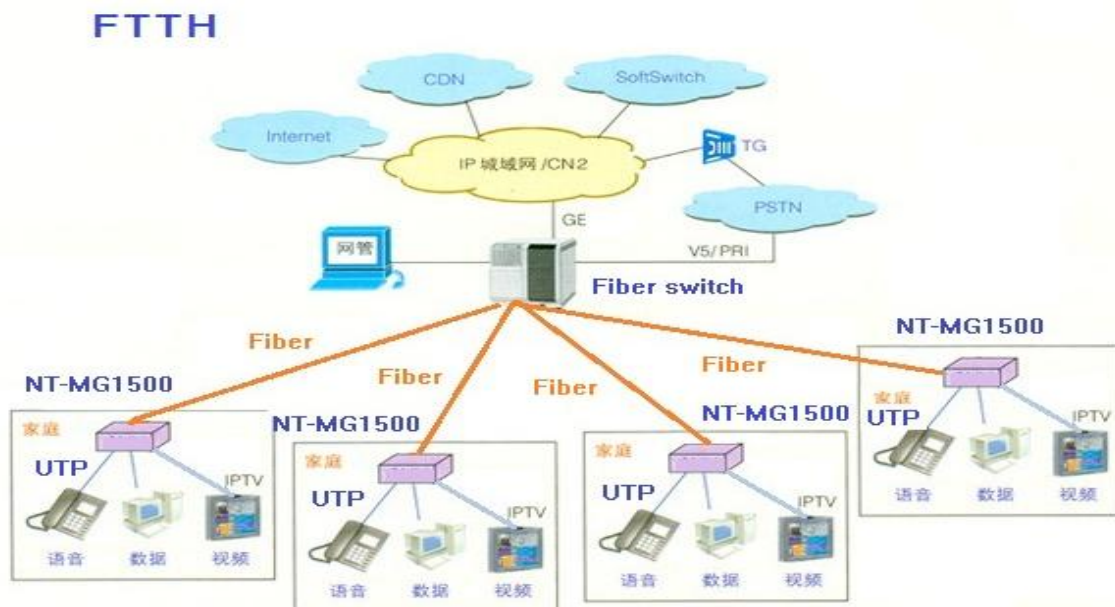|	
Management Interface	Web Browser, SNMPv1, v2c monitor and SNMP Trap
VLAN	Port-Based / 802.1Q Tagged Based VLAN, Up to 64 VLAN groups
Link Aggregation	Supports 4 groups of 8-Port trunk, IEEE 802.3ad LACP
QoS	Traffic classification based on 802.1p priority, DSCP field in IP Packet
IGMP Snooping	IGMP (v1/v2) Snooping, up to 64 multicast groups
SNMP MIBs	RFC-1213 MIB-2 RFC-1573-Interface MIB RFC-2819 RMON MIB(Group 1)
LED	Power, 1000 Link/Act, 100/10 Link/Act per port
Power Requirement	100 - 240VAC 50~60Hz, 40~57VDC
Power Consumption	6 watts
Temperature	0~50 ℃
Humidity Operating	5~95%(non-condensing)
Dimensions	217mm x 135mm x 43.5mm (W x D x H)
Weight	0.5kg

❖ **Applications**

FTTx Switch

With 1gigabit fiber interfaces, to build a network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs and FTTB (Fiber to the Building) for enterprises, the various distances of fiber port are optional for customers. For security and applications, the 5 Gigabit ports can be configured with VLAN settings and connect to different units, offices, buildings, houses and departments. And NT-MG1500 is wide application in Europe FTTH market.

❖ **Ordering Information**

NT-MG1500   6-Port 10/100/1000Mbps Web Smart Gigabit Ethernet Switch