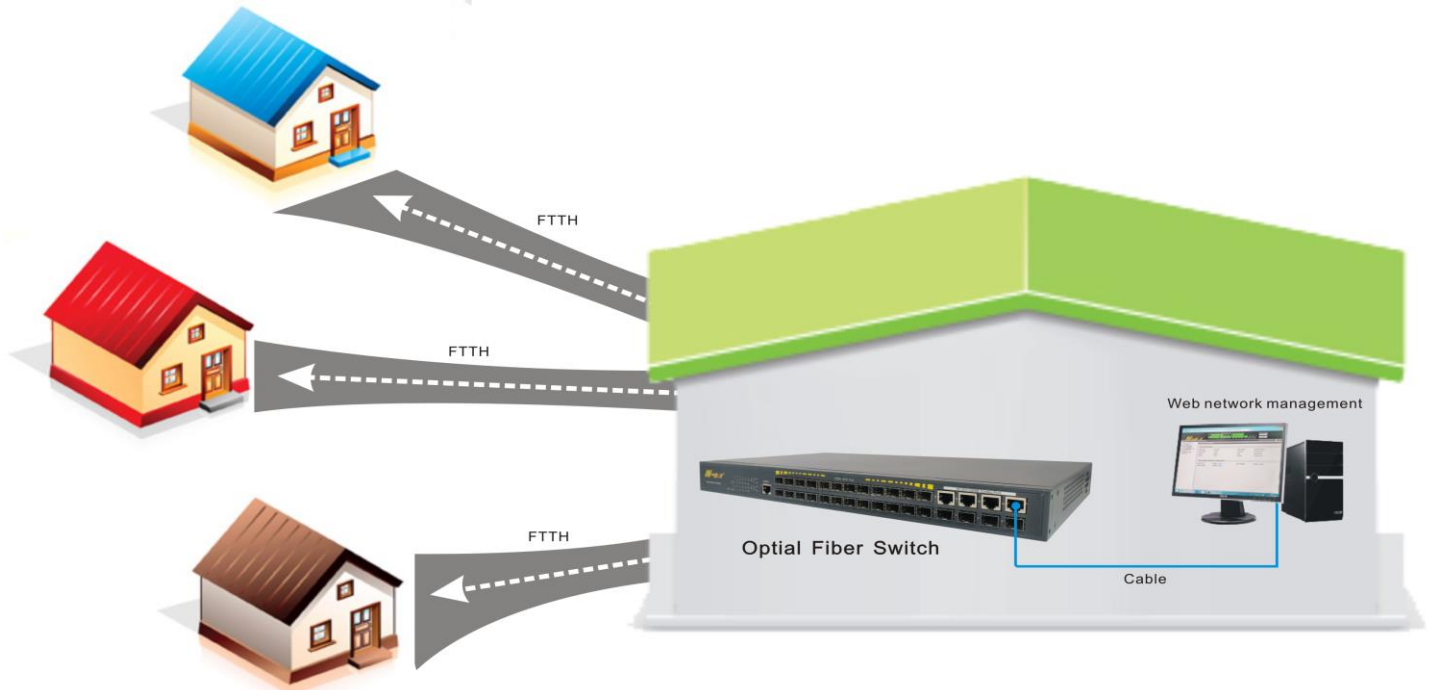❖ **Overview**

NT-35M24F4GC series all-optical switch is a high-performance, network management optional two layer Ethernet all-optical switch. Based on industrial network dedicated switching chip as the core, the main application is to provide support for Ethernet two layer exchange for the construction of the campus network, or with the special software (optional, Authentication and billing) for Ethernet access or cell broadband aggregation equipment. Support 24 100Base-FX SFP interface and 4 Gigabit uplink COMBO port (fiber port and Ethernet port is optional).

NT-35M24F4GC series optical switches can be applied to the campus network, enterprise network and residential communities, Internet broadband access, small office network, network video surveillance application environment, complete the long-distance multi user access needs through a pair or an optical fiber can be simplified, the access layer of the network structure, saving equipment investment, will greatly shorten the network the cycle and reduce the construction cost and maintenance cost, optical fiber transmission cost-effective access solutions.

❖ **Features**

✧ 24x 10/100Mbps downlink optical fiber Ethernet Ports, 4x 10/100/1000Mbps uplink Ethernet Ports ,or 4x1000Mbps uplink SFP Ports ,or 4x 1000M Gigabit Ethernet COMBO ports

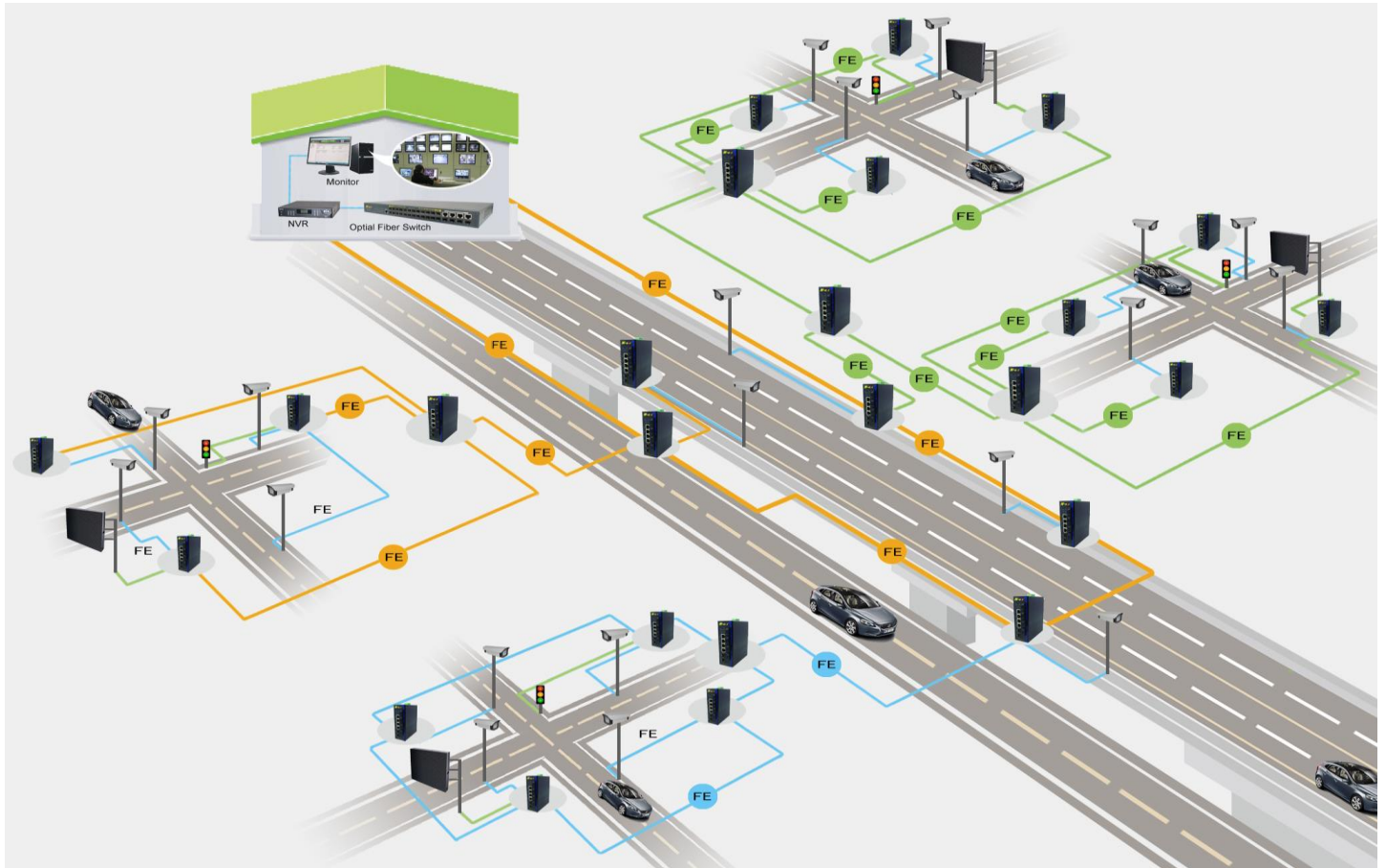✧ IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3z

✧ compatible with various Ethernet devices

Support L2+ Switching features including 802.1Q VLAN, Port Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, DHCP Relay, LACP, 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) and MSTP(802.1S)

✧ Support IP/Port/Mac binding.

✧ Jumbo frames support a maximum of 16K kilobytes

✧ Support enhanced management through WEB, CLI, SSH, SNMP.

✧ Built-in 1U rack power supply series, easy installation

❖ **Specifications**

Item		Description
Power	Power Adapter Voltage	90-260VAC
	Consumption	45W
Network Connector	Network Port	1～24 port:　10/100Mbps SFP fiber Ethernet port 4X Uplink COMBO port:10/100/1000Mbps Ethernet port or 1000Mbps SFP port
	Transmission Distance	1～24 port: depends on the optical module Uplink port: 100m for 10/100/1000Mbps Ethernet port SFP: depends on the optical module
	Transmission Medium	Cat5/5e/6 standard network cable
Network Switch	Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab ,IEEE802.3z, 802.3az IEEE802.3x , 802.1p, 802.1q, 802.1x , 802.1d, 802.1w, 802.1s, 802.3ad, 802.3ac, 802.1ab,
	System switching bandwidth	12.8G
	Packet forwarding rate	9.5M
	Maximum Frame Size	16k Bytes
	MAC address list	16K
Port Settings		Enable/Disable
		Auto Negotiation
		Auto MDI/MDI-X
		802.3x (Flow Control) and (Backpressure)
		Traffic Statistics
		Port Mirror
VLAN		29 port base VLAN group

	4K tag base VLAN group
	Tag based VLAN
	Port based VLAN
	Protocol based VLAN
	QinQ
	GVRP
	Management VLAN
QOS	802.1p
	Port based CoS
	IP/ToS based CoS(IPv4/IPv6)
	802.1Q
	8 priority queues
	FIFS, SP, WRR, SP+WRR, WFQ
	DSCP
	TCP/UDP port based CoS
	ACL base
	Source Mac base
Management	CLI
	HTTP/Telnet/SSH
	SNMP V1/V2/V3
	SNMP Trap
	RMON V1/V2
	Firmware upgrade by TFTP/HTTP
	SNTP
	SMTP
	Syslog
Storm control	Broadcast
	Multicast
	DLF
	ICMP
	ARP
Security	802.1X (port based, mac based)
	Radius
	TACACS+
	IP/Port/Mac binding
ACL	128 entries
	Port ID, MAC, IP, TCP/IP port no.
Spanning Tree	STP
	RSTP

	MSTP	
DHCP Relay	IPv4, IPv6	
Link Aggregation	6 Trtunk groups	
Environmental	Working temperature	0℃~55℃
	Relative Humidity	20~95%
	Storage temperature	-40℃~80℃
Mechanical	Dimension (L×W×H)	440mm*250mm*45mm
	Material	IRON
	Weight	2000g
Stability	MTBF	>30000h

Instruction:

1.   Front board have 33 ports, Provide 24x 10/100Mbps downlink fiber Ethernet Ports, 2x 10/100/1000Mbps uplink Ethernet Ports or 2x 1000Mbps uplink SFP Ports; or 4x 1000M Gigabit Ethernet COMBO ports，and 1x console port.
2.   LED Indicator State:

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

Ethernet: 28 green lights indicate that the Ethernet Link and Act

Ethernet: 28 green lights indicate that the Ethernet speed.

❖   **Installation step**

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

◆The use of 24 fibers connecting the 24 industrial switches and fiber optical fiber optical switch uplink port 1 ~ 24.

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

◆ Connect Ethernet switch with power adapter;

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

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

❖   **Order information**

Model	Description
NT-35M16F2GE2GF	Managed Fast Ethernet fiber Switch, (16) 10/100Mbps downlink fiber Ethernet Ports, (2) 10/100/1000Mbps uplink Ethernet Ports, and (2) 1000Mbps uplink SFP Ports.
NT-35M24F2GE2GF	Managed Fast Ethernet fiber Switch, (24) 10/100Mbps downlink fiber Ethernet Ports, (2) 10/100/1000Mbps uplink Ethernet Ports, and (2) 1000Mbps uplink SFP Ports,
NT-35M16F4GC	Managed Fast Ethernet fiber Switch, (16) 10/100Mbps downlink fiber Ethernet Ports, (4) 1000Mbps uplink Combo Ports.
NT-35M24F4GC	Managed Fast Ethernet fiber Switch, (24) 10/100Mbps downlink fiber Ethernet Ports, (4) 1000Mbps uplink Combo Ports.