







Introduction

FNS420-TGB is a high performance 10G SFP+ L3 core switch. It provides Static routing and dynamic routing with advanced hardware processing capacity. Supports up to 4 Port 10G SFP+ and retains the expansion ability to further support 10GE when realizing gigabit convergence or access. It supports IPv4/IPv6 hardware double stack and line speed forwarding, so that customers can easily cope with the coming IPv6 era, which provides high-capacity exchange capacity. FNS420-TGB has the operating temperature of $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$, has the super firmness to adapt to all kinds of harsh environment, can also be very convenient to install in the machine room cabinet. The rack-mounted characteristics and wide temperature operation make the switch a plug and play industrial-grade device, providing a reliable and convenient solution for users to network their Ethernet devices.



- Metal casing, IP40 protection level
- Wide range operating temperature (-40°C~75°C)

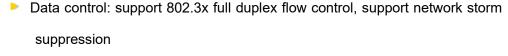


Support QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase network stability



- Support STP/RSTP/ERPS, SNMPv1/v2/v3 to ensure network security
- Support Rack-mounteTel: 400-8838-199





- Redundant network: support STP/RSTP/MSTP, support ERPS (self-healing time <20ms)</p>
- Support IPv6, static routing, Dynamic routing (RIP,OSPF)
- Support RIPng, OSPFv3, DHCP Server, DHCP replay, Qos
- Multicast management: Support IGMP Snooping V1/V2/V3
- VLAN: support IEEE 802.1q VLAN, effectively isolated broadcast domain
- Link aggregation: support link static/dynamic aggregation, provide perfect bandwidth utilization
- QoS: Support COS\DSCP, 4 queues, support WRR\SP scheduling mode
- Security management: support ACL access control list, support 802.1x, support user classification management
- Management function: support Web, SNMP management mode
- Monitoring maintenance: support port mirroring, interface status monitoring, log management



Tel: 4

Tel: 400-8838-199



Production Specification

Standard	
Model	FNS420-TGB
Item	Content
Ethernet Standard	IEEE 802.3ad, Link aggregation protocol;
	IEEE 802.3,10BASE-T Ethernet;
	IEEE 802.3u, Fast Ethernet standard;
	IEEE 802.3ab, Gigabit Ethernet standard;
	IEEE 802.3z, Gigabit Ethernet fiber standard;
	IEEE 802.3ae, 10G Ethernet standard;
	IEEE 802.3x, full duplex Ethernet Data link layer flow control;
	IEEE 802.3az, IEEE Efficient and Energy Efficient Ethernet Standard

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMC:

IEC(EN)61000-4-2(ESD): ±6kV Contact discharge, ±8kV Air discharge

 $IEC(EN)61000-4-3(RS): 10V/m(80 \sim 1000MHz)$

IEC(EN)61000-4-4(EFT): ethernet port: ±2kV CM//±1kV DM.

IEC(EN)61000-4-5(Surge): ethernet port: ±2kV CM//±1kV DM.

Industry Standard

IEC(EN)61000-4-6(Radio frequency conduction): 3V(10kHz ~ 150kHz),10V(150kHz ~ 80MHz)

IEC(EN)61000-4-16(Common mode conduction): 30V cont. 300V,1s

IEC (EN)61000-4-8

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6



Tel: 400-8838-199



Switching Characteristics	
Model	FNS420-TGB
Item	Content
Buffer Memory	64Mbit
Transmission Method	Store-and-forward
Backplane Bandwidth	598G
Switching Latency	<10µs
MAC Address	32K
Item	Content
Input Voltage	36 to 72V DC
input voitage	110 ~ 240V/50 ~ 60Hz AC
Access Terminal	Phoenix terminal block
	Support dual power supply redundancy
Characteristics	Support built-in over-current protection
	Support reverse connection protection with 4.0 A
Operating Environment	
Item	Content
Operating Temperature	-40 °C ~75°C
Storage Temperature	-40 °C ~85°C
Relative Humidity	5~95% (Non-condensing))
Interfaces	
Item	Content
	Number: 8-Port 10/100/1000Mbps SFP(combo),4-Port 10G SFP+
SFP Slot	24-Port gigabit SFP 10G SFP+
	Type: 1000BaseFX port (SFP slot),10GBaseFX port (SFP+ slot)
	Number: 24-Port gigabit RJ45
Ethernet Port	8-Port gigabit RJ45 combo
Ethernet Port	Type: RJ45, 10/100/1000M automatic detection, full/half duplex MDI/MDI-X adaptive
	Support single-mode/multi-mode fiber
	Multi-mode fiber: 550M
Optical Fiber	Single-mode optical fiber: 20/40/60/80/100KM



Tel: 400-8838-199



Other	
Model	FNS420-TGB
Item	Content
Shell	IP40 protection level, metal casing
Characteristic	Support the Console, Telnet, SSH, WEB management
	Support SNMP v1 / v2c/v3
Dimension	442×325×44mm
Weight	<4.2Kg
Installation Method	Rack-mounte
Heat-dissipating Method	Natural cooling, no fan
Dadum dant Taabu alamu	Support STP/RSTP/MSTP
Redundant Technology	Support ERPS
	MLD Snooping v1/v2,Multicast VLAN Registration (MVR)
Multicast Technology	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
	Support the port speed limit
	Support port truck
	Support port flow control
Switching Function	port VLAN, IEEE 802.1 Q VLAN
	Support broadcast storm suppression
	Support IPv6 management
Port Mirroring	Bidirectional data mirroring based on port
v	SP (Strict Priorty)
	WFQ (Weighted Fair Queuing)
	WRR (Weighted Round Robin)
	Random Early Detect (RED)
	WeightedRandomEarlyDetection (WRED)
QoS	Head Of Line
	Best-Effort Service
	First come first served
	802.1p
	Cos/Tos, QOS
	Differentiated Service
	Port-based Issuing ACL,ACL based on port and VLAN
ACL	L2 to L4 packet filtering, matching first 80bytes message.
	Provide ACL based on MAC, Destination MAC address, IP Source,
	Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
	<u> </u>

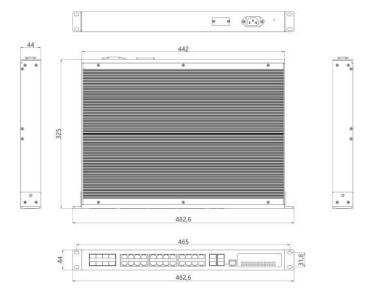


Tel: 400-8838-199



Other	
Model	FNS420-TGB
ltem	Content
	Support IP ACL, MAC ACL, Vlan ACL, support ACL based on L3 L4
-	IP+MAC Port binding
Security	Support IP Source Guard, RP Detection
	Support IEEE 802.1x port verification, support Radius
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
IP routing	Supports port-based input/output bandwidth management.
	Supports static routes. IPV6
	Supports the virtual route redundancy protocol VRRP.
	Dynamic routes such as RIP, RIPng, OSPF, and OSPFv3 are supported.
	Supports configuration file uploading and downloading. Upload the upgrade package.
	Supports factory restore on WEB, Supports the system log function.
	Support Ping 、tracert、cable detection and other diagnostic functions.
	Supports WEB management (HTTP and HTTPS).
System maintenance	Supports CLI management. Supports Telnet remote management.
	Supports SSH 2.0. Supports SNMP network management.
	Support RMON; Supports NTP clients.
LED	Power: Red,Fiber: Link 2(Green),Ethernet: Yellow Port indicator: POE port, SFP port (Link/ACT)

Dimension (mm): 442 x 325x 44mm

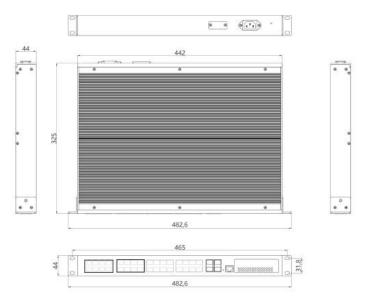


FNS420-824TF4-TGB-SFP



Tel: 400-8838-199





FNS420-248TF4-TGB-SFP

Order Information

Model	Description
FNS420-824TF4-TGB-SFP	L3 Managed Industrial Switch: 24-Port gigabit RJ45 +8G SFP combo+4-Port 10G SFP,
	AC110~240,DC36-72V power supply, wide temperature (-40 $^\circ$ C -75 $^\circ$ C), WEB/CLI management,
	SNMP-VLAN
FNS420-248TF4-TGB-SFP	L3 Managed Industrial Switch:24-Port gigabit SFP +8G RJ45 combo+4-Port 10G SFP+,
	AC110~240,DC36-72V power supply, wide temperature (-40 ° C -75 ° C), loop network
	(STP/RSTP/ERPS), WEB/CLI management



Tel: 400-8838-199