Product Data Sheet

UTC Fire & Security
A United Technologies Company

NS3702-24P-4S

Enterprise-class 24-port Gigabit Backbone Network Switch with PoE+

Overview

This enterprise-class network switch is engineered to meet a variety of high-performance applications such as PoE distribution, optical network architectures, and high-density performance through reliable technology and advance Layer 2+ networking features.

Simple Web Management

Efficient switch management via a simple, yet powerful set of built-in Web Services.

The NS3702-24P-4S can easily be programmed for all switch management functions such as Port Speed Configuration, Port Link Aggregation, IEEE 802.1Q VLAN and Q-in-Q VLAN, Port Mirroring, Rapid Spanning Tree and ACL security.

The NS3702-24P-4S also supports standard Simple Network Management Protocol (SNMP) and include an advanced SNMP feature set to monitor the status of the switch and traffic per port. The switch can also be monitored via any standards-based SNMP management software.

Full Power Isolated per Port PoE+

The NS3702-24P-4S features IEEE 802.3at Power over Ethernet (PoE+) providing optimized deployment and power management of PoE edge devices such as IP Surveillance cameras. access control panels and wireless access points (WAP). In addition, PoE port circuit protection isolates and prevents power interference between ports.

Static Routing

The NS3702-24P-4S supports static routing tables allowing for complex system architectures. Traffic can be routed across different domains or between different VPN. This allows flexible network design and greater control of network traffic, essential for modern IP CCTV systems.

Standard Features

- 24-ports Gigabit Ethernet RJ-45 with PoE+
- 4 SFP slots shared with Ports 21 to 24 - compatible with S2x and S3x SFP's
- Support for Static Routing
- Up to 48Gbps non-blocking switch fabric
- 10Kbytes Jumbo Frame Size
- 8K MAC address table
- Full Multicast Support for IP Video - up to 256 multicast groups
- VLAN Support - up to 256 VLANs groups
- Quality of Service (QoS)
- Power over Ethernet
- Complies with IEEE 802.3at Standard for PoE
- 380 Watt Power Budget
- Auto-detects PoE powered devices (PD)
- Advanced Security
- MAC Filtering and Source IP/MAC address port-binding

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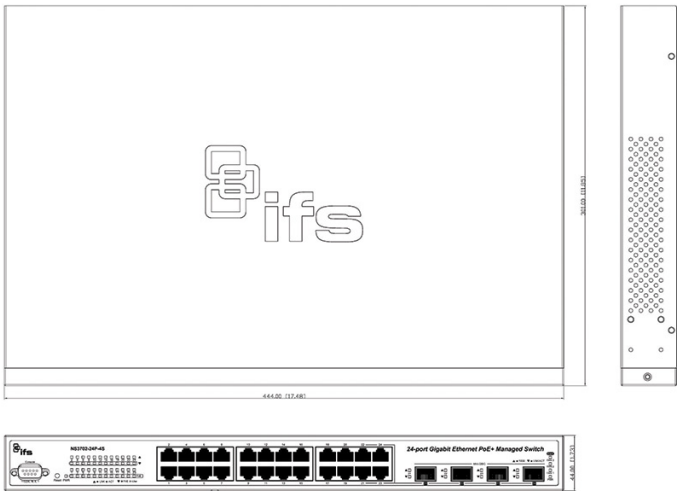
Specifications

Physical Ports	
10/100/1000Base-T (X) Ports:	RJ-45 (24)
SFP/Mini-GBIC Slots:	SFP/Mini-GBIC Slots (4) - Shared with RJ-45 Ports-21 to 24; 1000Base- SX/BX/LX/LHX/ZX and 100Base- FX/BX/LX SFP transceiver compatible
Port Configuration:	Auto MDI/MDI-X
Port Speed:	Auto-negotiate
Switch Performance	
Switch Architecture:	Store-and-Forward
Switch Fabric:	48Gbps non-blocking
Switch Throughput:	35.7Mpss@64Bytes
Mac Address Table:	8K entries
Share Data Buffer:	4.1Megabits
Jumbo Frame Size:	10Kbytes
Flow Control:	IEEE 802.3x Pause Frame for Full- Duplex, Back pressure for Half-Duplex
Layer 2 Functions	
Management Interface:	Console, Telnet, Web Browser, SNMPv1, v2c and v3
Port Configuration:	Port enable/disable; Auto-negotiation; 10/100/1000Mbps full and half duplex mode selection; Flow Control enable/disable; Bandwidth control on each port
Port Status:	Display each port's: speed duplex mode, link status, flow control status, Auto negotiation status, trunk status
Port Mirroring:	TX/RX/Both; Many to 1 monitoring
Bandwidth Control:	Ingress/Egress rate control: configure per port
VLAN:	802.1Q Tagged-based VLAN, up to 255 VLAN groups out of 4094 VLAN IDs
Link Aggregation:	IEEE 802.3ad LACP / Static Trunk; Supports 12 groups of 16-Port trunks
Quality of Service (QoS):	Traffic classification based, Strict priority and WRR, 4-level priority for switching - Port Number, - 802.1p priority, - DS/TOS field in IP Packet
Multicasting/IGMP:	IGMP (v1/v2/v3) Snooping, up to 255 multicast Groups; IGMP Querier mode support, up to 255 multicast Groups; IGMP Querier mode support
Access Control List:	IP-Based ACL/MAC-Based ACL 256 entries
SNMP MIBs (1):	RFC-1213 MIB-II, IF-MIB, RFC-1493 Bridge MIB RFC-1643 Ethernet MIB RFC-2863 Interface MIB RFC-2665 Ether-Like MIB RFC-2737 Entity MIB
SNMP MIBs (2):	RFC-2618 RADIUS Client MIB RFC-2933 IGMP-STD-MIB RFC3411 SNMP-Frameworks-MIB, IEEE802.1X PAE, LLDP, MAU-MIB, Power over Ethernet–MIB
Power over Ethernet	
PoE Standard:	IEEE 802.3at
PoE Power Supply Type:	End-Span (PSE)
PoE Power Budget:	380 Watts
Max. number of PD @ 30.8 Watts:	12
Max. number of PD @ 15.4 Watts:	24
PoE Power Output Per Port:	48VDC, 350mA.; 15.4 watts max.
Power Pin Assignment:	1/2(+), 3/6(-)
LED Indicators & Switch	
Power:	On/Green
10/100/1000Base-TX Ports:	10/100/1000Mbps LNK/ACT (Green) PoE In-Use (Orange)
10/100/1000Base-T/SFP Ports:	1000Mbps (Orange), LNK/ACT (Green)
FAN(s):	FAN1 (Green), FAN2 (Green), FAN3 (Green)
Reset Button:	System reboot: push and hold < 5 sec.; Factory Default: push and hold > 5 sec.
Electrical & Mechanical	
AC Power Input Voltage:	100 ~ 240VAC, 50 / 60Hz, Auto-sensing
Power Consumption (Max):	422 Watts
Dimensions (WxDxH); in/ cm:	440 x 300 x 44.5 mm
Weight; lbs/kgs:	4.75 kgs
Environmental	
Operating Temperature:	0º ~ 50ºC
Storage Temperature:	-20º ~ 70ºC
Relative Humidity:	0% to 95% (non-condensing)
Standards Compliance	
Regulatory Standards:	FCC Part 15 Class A, CE, UL, cUL
IEEE Standards (1):	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX/100BASE-FX/BX/LX; IEEE 802.3z Gigabit SX/BX/LX/LHX/ZX; IEEE 802.3ab Gigabit 1000T; IEEE 802.3x Flow Control and Back pressure; IEEE 802.3ad Port trunk with LACP; IEEE 802.1d Spanning tree protocol
IEEE Standards (2):	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; IEEE 802.1ab LLDP; IEEE 802.3at Power over Ethernet
Accessories	
SFP:	S30 Series
SFP:	S20 Series

Ordering Information

Part No.	Description
NS3702-24P-4S	Enterprise-class 24-port Gigabit Backbone Network Switch with PoE+



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