NS3553-4P-1T-2S-V2

4-Port Gigabit PoE-bt Industrial Managed Switch

Overview

For fast and efficient connectivity from the network edge to a backbone switch or server, the IFS® 4-Port Gigabit Ethernet Managed Switch by Interlogix features four Gigabit Ethernet ports with support for PoE-bt (up to 95W) plus 2 SFP ports and a gigabit RJ45 uplink port. Both 100Base-X or 1000Base-X transmission is supported through four GBIC interfaces.

For efficient switch management, the Switch is easily programmable via a simple, yet powerful Web Interface.

Engineered for Real-time Performance

This switch is designed with a high performance non-blocking switch fabric and provides wire-speed throughput as high as 14 Gbps. The Switch classifies and prioritizes Layer 2 802.1p or Layer 3 IP TOS/DSCP traffic into four hardware queues that support strict or Weighted Round Robin (WRR) queuing algorithms. This functionality provides maximum allocation of limited network resources and guarantees best performance for real-time applications.

Full Power, Isolated per Port PoE

This Gigabit PoE-bt Managed Switch provides optimized deployment and safe power management to PoE edge devices such as IP Surveillance cameras, access control panels, and remote thin clients.

Built-in Monitoring, Diagnostics and Trouble-shooting Tools

The Switch can be configured to monitor a connected PD (Powered Device) status in real-time via IP ping. If a PD (IP Camera or IP Access Reader) no longer responds to a ping, the switch will cycle PoE power on the port thus rebooting the PD back to operational status. This along with built-in cable diagnostics, and support for SNMP can greatly enhance the IT administrator's trouble-shooting and management abilities.



Details

- 4-Port 10/100/1000Base-T RJ-45 with IEEE 802.3af/at /bt PoE (up to 95W)
- 1-Port 10/100/1000Base-T RJ-45 uplink
- 2-Port 100/1000Base-X mini-GBIC/SFP slots, SFP type auto detection with digital diagnostics monitoring (DDM) functions.
- 1 x RS-232 console interface for basic management and setup
- Web-based, telnet, SSH, SSL and console command line management, IP address security management to prevent unauthorized intruder
- RADIUS / TACACS+ users access authentication
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause-frame flow control (full-duplex) groups, out of 4K VLAN IDs
- IP-Based Access Control List (ACL), MAC-Based Access Control List, Source MAC / IP address binding
- Ingress/egress bandwidth control on each port
- Supports IGMP Snooping v1, v2 and v3, IGMP query mode for multicast media application and Multicast VLAN Registration
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- Supports LLDP to allow switch to advise its identification and capability on the LAN
- IPv4 and IPv6 IP Address / NTP / DNS management
- Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues

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Technical specifications

General

Fast ring	Yes (ERPS)
Storm control	Broadcast, Multicast, Unicast
Security	802.1x, ACL, RADIUS, Source MAC / IP address binding
DHCP snooping	Yes
Fault relay output	Yes, with 2x digital inputs and 2x digital outputs

Category

Category	Industrial
Management	Managed
Managed	Yes (Layer 3 - Limited)
PoE	Yes

Physical ports

No. of ports	5
Port type	Gig
Speed	Gigabit
PoE/PoE+	4 Port PoE/4 Port PoE+/4 Port PoE-bt
Fiber port	2 SFP
Supported SFPs	S20/S25 series, S30/S35 series
SFP speed	100/1000

Switch Performance

Switch fabric	14 Gbps
Throughput (Mpps)	10.42
Mac table	8 K
Jumbo frame support	9 K

Layer 2 Functions

Management interface	Console, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access
IGMP snooping	255 Group, Snooping v1, v2, v3
IGMP query	Yes
VLAN, QoS	256, yes
Access control list	123 entries
Link Aggregation	IEEE 802.3ad LACP/static trunk. Supports 3 trunk groups with 3 ports per trunk group
QoS	Traffic classification based on : • Port Number • 802.1Q Tag • 802.1p priority • IP DSCP/TOS field in IP Packet
Bandwidth Control	Per port bandwidth control - Ingress: 500Kb~1000Mbps Egress: 500Kb~1000Mbps
Port Mirror	TX/RX/Both; Many to 1 monitoring
SNMP MIBs	RFC-1213 MIB-II, RFC-2863 Interface MIB, RFC-1493 Bridge MIB
SNMP MIBs	RFC-2819 RMON MIB (Group 1, 2, 3, 9), RFC-2674 Extended Bridge MIB (Q-Bridge), Private MIB

Electrical

PoE power budget	240 W
Redundant power	Yes
Power supply type	52 to 56 VDC
Power consumption	282 W (Max.)

Physical

Physical dimensions	72 x 107 x 152 mm
Net weight	1050g
Mounting type	DIN-rail, Wall mount

Environmental

Operating temperature	-40 to +75°C
Storage temperature	-40 to +75°C
Relative humidity	5 to 95% (non-condensing)
Environment	Indoor

Regulatory

IEC standard	IEC60068-2-27 (shock), IEC60068-2-32 (free fall), IEC60068-2-6 (vibration)
Compliancy	CE, FCC Part 15 Class A
	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX/100Base-FX
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3ab Gigabit 1000Base-T
	IEEE 802.3ad Port trunk with LACP
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at Power over Ethernet
	IEEE 802.3x Flow Control and Back Pressure
	IEEE 802.1d Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	IEEE 802.1p Class of Service
	IEEE 802.1Q VLAN Tagging
	IEEE 802.1x Port Authentication Network Control
	RFC 768 UDP, RFC 791 IP, RFC 792 ICMP
	RFC 793 TFTP, RFC 2068 HTTP
	RFC 1112 IGMP Version 1, RFC 2236 IGMP Version 2

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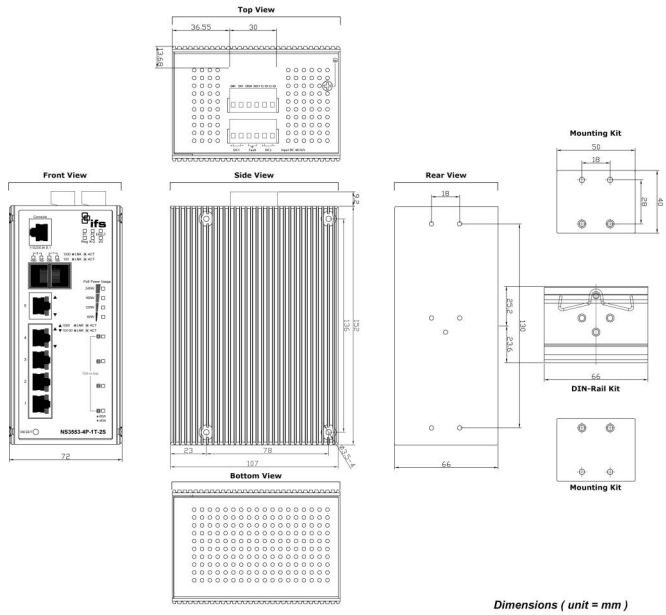
4-Port Gigabit PoE-bt Industrial Managed Switch



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Last updated on 18 June 2026 - 14:26