



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 Troubleshooting 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.



Détails

- 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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Spécifications techniques

Général

Fast ring	Oui (ERPS)
Contrôle orage	Diffusion générale, Multidiffusion, Diffusion individuelle
Sécurité	802.1x, ACL, RADIUS, Source MAC / adresse IP binding
Recherche DHCP	Oui
Sortie relais défaut	Oui, avec 2 x entrées numériques et 2 x sorties numériques

Catégorie

Catégorie	Industriel
Gestion	Géré
Géré	Oui (Layer 3 - Limited)
PoE	Oui

Ports physiques

Nombre de ports	5
Type de port	Gig
Vitesse	Gigabit
PoE / PoE+	4 Port PoE/4 Port PoE+/4 Port PoE-bt
Port fibre	2 SFP
Prise en charge SFP	Série S20/S25, Série S30/S35
Vitesse SFP	100/1000

Performances des commutateurs

Structure de commutation	14 Gbps
Débit (Mpps)	10.42
Table MAC	8 K
Jumbo frame support	9 K

Fonctions de la couche 2

Interface de gestion	Console, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access
Surveillance IGMP	255 groupe, Snooping v1, v2, v3
Requête IGMP	Oui
VLAN, QoS	256, oui
Liste de contrôle d'accès	123 entries

Électrique

Budget d'alimentation PoE	240 W
Alimentation redondante	Oui
Type de bloc d'alimentation	52 à 56 VCC
Consommation électrique	282 W (Max.)

Caractéristiques physiques

Dimensions physiques	72 x 107 x 152 mm
Poids net	1050g
Type de montage	Rail DIN, Fixation murale

Environnement

Température de fonctionnement	-40 to +75°C
Température de stockage	-40 to +75°C
Humidité relative	5 to 95% (non-condensing)
Environnement	Intérieur

Régulateur

Normes IEC	IEC60068-2-27 (choc), IEC60068-2-32 (chute libre), IEC60068-2-6 (vibration)
Conformité	CE, FCC Part 15 Class A

Layer 2 Functions

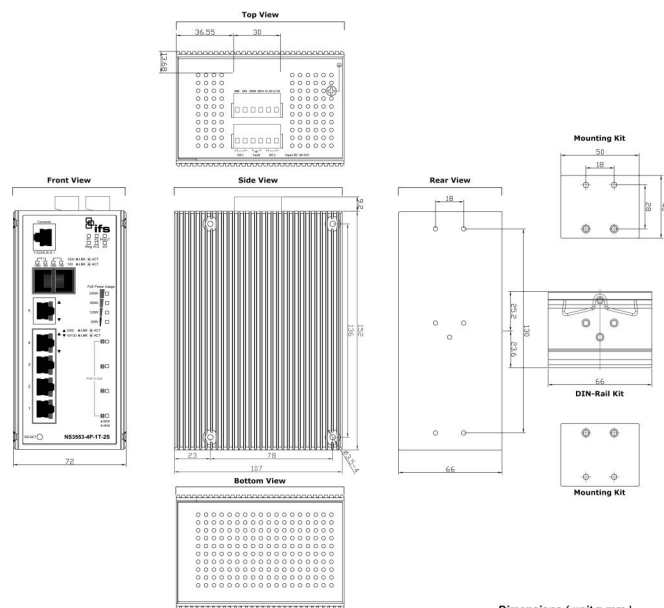
Link Aggregation	IEEE 802.3ad LACP/static trunk. Supports 3 trunk groups with 3 ports per trunk group
QoS	Traffic classification based on : • Port Number • 802.1Q Tag • 802.1p priority • IP DSCP/TOS field in IP Packet
Bandwidth Control	Per port bandwidth control - Ingress: 500Kb~1000Mbps Egress: 500Kb~1000Mbps
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

Regulatory

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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Dimensions (unit = mm)