

8-Port Fast Ethernet Layer 2 Managed Switches



OVERVIEW

For fast and efficient connectivity from the network edge to a backbone switch or server, the IFS 8-port Fast Ethernet Managed Switch Series features eight 10/100Mbps Fast Ethernet ports with 2 Gigabit TP/SFP combo ports. The 2 Gigabit TP/SFP combo ports can support either 10/100/1000Mbps (RJ45) or (1000Base-SX/LX/BX) through an SFP (Small Form-factor Pluggable) GBIC interface. This series is also available with PoE and PoE+ capabilities.

Robust Layer 2 Features

For efficient switch management, the IFS 8-port Fast Ethernet Managed Switch Series is easily programmable via a simple, yet powerful Web Interface, the switch can manage Port Speed Configuration, Port Link Aggregation, IEEE 802.1Q VLAN and Q-in-Q VLAN, Port Mirroring, Spanning Tree and ACL security. The switch includes advanced features such as Multicasting with IGMP snooping and query, QoS (Quality of Service), broadcast storm and bandwidth control to enhance bandwidth utilization.

These switches support 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.

Engineered for Real-time Performance

This switch series is designed with a high performance switch architecture that is capable of providing a non-blocking switch fabric and wire-speed throughput as high as 5.6 Gbps. To ensure optimum quality of service, the IFS 8-port Fast Ethernet Managed

Switch Series 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

The GE-DS-82-POE and NS2503-8P/2C models provide optimized deployment and safe power management of PoE edge devices such as IP Surveillance cameras, access control panels, wireless access points (WAP) and Voice over IP (VoIP). Full power PoE-af (15.4w) is provided to all 8-ports with no power sharing, and added port circuit protection isolates and prevents power interference between ports. In addition to standard IEEE 802.3af (15.4w), the NS2503-8P/2C provides support for up to 5 ports of IEEE 802.3at (30w) PoE.

Advanced Security

This switch also offers comprehensive Layer 3 and Layer 4 Access Control List (ACL) to filter out unwanted traffic. Its protection mechanisms are comprised of RADIUS and Port-Based 802.1x user and device authentication. In addition, the switch provides MAC filter, Static MAC, IP/MAC binding and Port Security for enforcing security policies to the edge. With IFS enterprise-class switches, a network administrator can now construct a highly secure network with considerably less time and effort.

STANDARD FEATURES

Physical Ports

- 8-Port 10/100Base-TX RJ-45 (GE-DS-82)
- 8-Port 10/100Base-TX RJ-45 with PoE (GE-DS-82-PoE and NS2503-8P/2C)
- 2-Uplink Gigabit TP/SFP combo ports
- 1 RS-232 male DB9 console port
- Auto-MDI/MDI-X detection
- Auto-negotiation
- Supports full-duplex/half-duplex modes

High-performance Switch Architecture

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z standards
- High performance Store and Forward architecture and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Broadcast/multicast/unicast storm control
- 5.6 Gbps non-blocking switch fabric
- 9K bytes Jumbo frame support
- 8K MAC address table, automatic source address learning and aging

Full Multicast Support for IP Video

- IGMP Snooping v1 and v2 fast leave
- IGMP Query mode support
- Up to 256 multicast groups

VLAN Support

- IEEE 802.1Q Tag-Based VLAN
- Up to 255 VLANs groups, out of 4041 VLAN IDs
- Port-Based VLAN
- Q-in-Q tunneling (Double Tag VLAN)

Spanning Tree Protocol

- STP, IEEE 802.1D (Spanning Tree Protocol)
- MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol)

Quality of Service (QoS)

- 4 priority queues on all switch ports
- Traffic classification:
 - IEEE 802.1p Class of Service
- IP TOS/DSCP code priority
- Port Base priority
- Strict priority and weighted round robin (WRR) CoS policies
- Ingress/Egress Bandwidth Control on each port

Power over Ethernet (PoE) [GE-DS-82-PoE and NS2503-8P/2C Only]

- Complies with IEEE 802.3af Standard
- Complies with IEEE 802.3at Standard (NS2503-8P/2C only)
- Up to 180 Watt power budget
- Auto-detects PoE powered devices (PD)
- Provides full-power PoE on each port no port sharing
- Circuit protection isolates and prevents power interference between ports
- End-Span (PSE) configuration supplies power up to 100m
- PoE Management Features
- Total power budget control
- Per port control (enable/disable, priority, power limit)
- PD classification detection
- Power Supply Over temperature Protection

Link Aggregation

- IEEE 802.3ad LACP (Link Aggregation Control Protocol)
- Up to 13 Trunk groups
- Up to 8 ports per trunk group with 1.6Gbps bandwidth (Full Duplex mode)
- Supports Cisco ether-Channel (Static Trunk)

Advanced Security

- IEEE 802.1x Port-based authentication
- RADIUS users access authentication
- Layer 3 and Layer 4 Access Control List (ACL)
- MAC Filtering and Source IP/MAC address port-binding
- Port Mirroring to monitor incoming or outgoing traffic on a particular port

Switch Management

- \bullet Local console or remote switch management via Web browser, Telnet CLI, SNMP v1, v2c , v3
- SNMP Trap for alarm notification of events
- Four RMON groups 1, 2, 3, 9 (history, statistics, alarms, and events)
- Built-in Trivial File Transfer Protocol (TFTP) client
- Configuration upload/download via TFTP or HTTP
- Firmware upgrade via TFTP or HTTP
- Supports Ping function
- Reset button for system management

Warranty

• 3-year Limited Warranty

ADDITIONAL FIRMWARE 1.5 FEATURES

Management

- 6 Levels of User Privilege Access Control Improved Multicast Control Configuration Backup Expect IP Event Log/Alarms
- Remote IP Ping by Port MAC Table Query by Port Addition support for SNMP v3

Power over Ethernet (PoE) Management

• System PoE Enable/Disable • PoE Threshold and Event • Temperature Threshold and Event • PoE Scheduling

Specifications Physical Ports

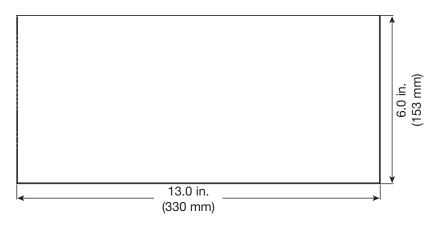
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	IEEE 802.3af	IEEE 802.3af / IEEE 802.3at
	End-Span (PSE)	End-Span (PSE)
	180 Watts	150 Watts
	8	8
	8	8
		5
	48VDC, 350mA; 15.4 watts max.	48VDC, 350mA. Max. 15.4 watts (IEEE 802.3af) 52VDC, 590mA. Max 30 watts (IEEE 802.3at)
	1/2(+), 3/6(-)	1/2(+), 3/6(-)
/Green	On/Green	On/Green
100 LNK/ACT - Green; 100Mbps - Amber	10/100 LNK/ACT - Green; PoE in Use - Amber	10/100 LNK/ACT - Green; PoE in Use - Amber
LNK/ACT - Amber; 1000 LNK/ACT - Green	100 LNK/ACT - Amber; 1000 LNK/ACT - Green	100 LNK/ACT - Amber; 1000 LNK/ACT - Green
tem reboot: push and hold < 5 sec.	System reboot: push and hold < 5 sec.	System reboot: push and hold < 5 sec.
tory default: push and hold > 5 sec.	Factory default: push and hold > 5 sec.	Factory default: push and hold > 5 sec.
0.40/40 50/0011 *	100 040/40 50/00/	100 010/100 50/00/1
240VAC, 50/60Hz, Auto-sensing	100~240VAC, 50/60Hz, Auto-sensing	100~240VAC, 50/60Hz, Auto-sensing
Watts	200 Watts	200 Watts
x 6 x 1.7 in (330 x 153 x 44mm)		
lbs., 1.2kg	3.5 lbs., 1.6kg	3.5 lbs., 1.6kg
2+50°C	0 to +50°C	0 to +50°C
		-20 to +70°C
to 95% (non-condensing)	0% to 95% (non-condensing)	0% to 95% (non-condensing)
C Part 15 Class A; CE; UL	FCC Part 15 Class A; CE; UL	FCC Part 15 Class A; CE; UL
E 802.3 10Base-T E 802.3u 100Base-TX E 802.3z 1000Base-SX/LX E 802.3z 1000Base-SX/LX E 802.3x Flow Control and Back pressure E 802.3ad Port trunk with LACP E 802.13 Apanning Tree Protocol E 802.1s Multiple Spanning Tree Protocol E 802.1s Cut AN Tagging E 802.1v LAN Tagging E 802.1x Port Authentication Network Control	IEEE 802.3u 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3u 100Base-SX/LX IEEE 802.3z 1000Base-SX/LX IEEE 802.3x 1500 Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1 p Class of service IEEE 802.1 p Class of service IEEE 802.1 p Class of service IEEE 802.1 Port Authentication Network Control IEEE 802.3af Power over Ethernet RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3z 1000Base-SXLX IEEE 802.3z 1000Base-SXLX IEEE 802.3x Flow Control and Back pressure IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1 p Class of service IEEE 802.3 af and 802.3 at Power over Ethernet RFC 768 UDP RFC 793 IFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP
tt) V X I C EEEEEEEEE	ony default: push and hold > 5 sec. -240VAC, 50/60Hz, Auto-sensing Vatts 6 x 1.7 in (330 x 153 x 44mm) bs., 1.2kg +50°C to +70°C to 95% (non-condensing)	Part 15 Class A; CE; UL 802.31 10Base-T 802.32 100Base-TX 802.32 Flow Control and Back pressure 802.34 Flow Control and Back pressure 802.35 Flow Control and Back pressure 802.36 Flow Control and Back pressure 802.36 Flow Control and Back pressure 802.37 Flow Control and Back pressure 802.38 Flow Control and Back pressure 802.38 Flow Control and Back pressure 802.39 Flow Control and Back pressure 802.30 Flow Control and Back pressure 802.30 Flow Control and Back pressure 802.31 Class of service 802.10 VLAN Tagging 802.11 Port Authentication Network Control 80DP RFC 793 TFTP RFC 793 TFTP RFC 791 IP RFC 792 ICMP

8-Port Fast Ethernet Layer 2 Managed Switches

 North America
 Asia
 Australia
 Europe
 Latin America

 T 855-286-8889
 T 852-2907-8108
 T 61-3-9239-1200
 T 32-2-725-11-20
 T 561-998-6114

Dimensional Diagrams



8-Port 10/100Mbps + 2 Gigabit Managed Switch GE-05-82	1 10 10 10 10 10 10 10	1.7 in. (44 mm)
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GE-DS-82

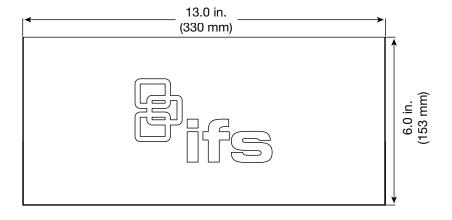
Ordering Information

GE-DS-82	8-Port Fast Ethernet Managed Switch
GE-DS-82-PoE	8-Port Fast Ethernet PoE-af Managed Switch
NS2503-8P/2C	8-Port Fast Ethernet PoE-af/at Managed Switch
Included Accessories	User's Manual CD, Quick Installation Guide, AC Power Cord, RS-232 Cable, Rubber Feet, Rack Mount Ears with Screws

Note: These switches require a Small Form-factor Pluggable (SFP) for optical uplink use. IFS SFPs are available for multi-mode, single mode, and 1 or 2 fibers for various transmission distances over optical fiber. Please refer to the IFS SFP data sheet to select the appropriate SFP for your particular application needs. The mini-GBIC ports on these units accept Gigabit SFPs only. IFS S30 Series SFPs are recommended.

Accessories

SFP	S30 Series
SFP	S35 Series (wide-temp)





GE-DS-82-PoE and NS2503-8P/2C



interlogix.com

Specifications subject to change without notice.