

# NS3562-8P-2S

## Low-profile Wall-mount Industrial PoE+ Managed Switch



### OVERVIEW

The IFS® NS3562-8P-2S Low-profile Wall-mount Industrial Gigabit PoE+ Managed Switch by Interlogix is equipped with eight 10/100/1000Mbps RJ45 ports with PoE+ (30w) capabilities and two 100/1000Mbps SFP (fiber) uplink ports.

This fully managed Layer 2 switch provides an industrial hardened design that provides for operational recovery in the event of a network or power system failure.

#### Layer 2 Managed Switch

The IFS Industrial Gigabit Managed Switch Series supports advanced features including IEEE 802.1Q VLAN, GVRP, port link aggregation, QoS, broadcast storm control and MAC address filtering. The series also includes IGMP snooping and querying multicasting for media operations and bandwidth utilization to fit a variety of applications. Via aggregation of supporting ports, the series allows the operation of high-speed trunk operation combining multiple ports. A maximum of four ports can be assigned for four trunk groups and support fail-over as well. Additionally, it is compliant with equipment from other vendors that meet IEEE802.3 standard.

#### Robust Hardened Design

With an IP-30 rated enclosure, IFS Industrial Gigabit Managed Switches protect against electromagnetic (EMI) and radio-frequency (RFI) interference typically found in industrial environments. This series of switches comply with IEC60068-2-xx standards for free-fall, shock, and vibration and operate in -40°C~75°C temperatures found in difficult environments such as plant floors or in curbside traffic control cabinets.

### STANDARD FEATURES

#### Ports

- 8-Ports 10/100/1000Base-TX (PoE+)
- 2-Ports 100/1000Base-FX (SFP)
- Auto MDI/MDI-X and Auto-negotiation

#### Power over Ethernet (PoE)

- Up to 8 IEEE 802.3at devices powered
- IEEE 802.3af/at Power over Ethernet End-Span PSE compliant
- Up to 30 watts for each PoE port support
- Auto detect powered device (PD)
- Remote power that feeds up to 328 ft. (100m)


#### Design

- Slim IP-30 metal enclosure
- Wall mount or magnet fittings
- 52~56VDC operation
- Terminal block or DC receptacle for power
- Voltage/surge-suppression (EFT 6000VDC protection for power lines or ESD 6000VDC protection for Ethernet)
- IEC60068-2-xx standards compliant for free-fall, shock and vibration
- Wide operating temperature range of -40°C~70°C

#### Warranty

- 3-year limited warranty

# Specifications

PART NO.		NS3562-8P-2S
		
Physical Ports	10/100/1000Base-T Ports	RJ-45 (8)
	100/1000Base-X SFP Ports	SFP Ports (2)
	Port Configuration	Auto MDI/MDI-X
	Port Speed	Auto-negotiate
	Electro Static Discharge (ESD) Protection	6K VDC
Switch Performance	Switch Architecture	Store-and-Forward
	Switch Fabric	20Gbps/non-blocking
	Throughput (Packet per second)	14.8Mpps @64Bytes
	Address Table	8K entries
	Share Data Buffer	4Mbit
	Maximum Frame Size	9K Bytes (Jumbo Frames)
	Flow Control	Back pressure for Half-Duplex IEEE 802.3x Pause Frame for Full-Duplex
Layer 2	Port Configuration	Port disable/enable, Auto-negotiation 10/1000/1000Mbps full and half-duplex mode selection, Flow control disable/enable and bandwidth control on each port
	Port Status	Display each port's speed Auto negotiation status, duplex mode, link status, Flow control status
	Bandwidth Control	Bandwidth control per port: Ingress: 500Kb~1000Mbps, Egress: 500Kb~1000Mbps
	Spanning Tree	IEEE 802.1d Spanning Tree, IEEE 802.1w Rapid Spanning Tree, IEEE 802.1s Multiple spanning tree protocol
	VLAN	802.1Q Tagged Based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-Based VLAN Protocol-Based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs
	Multicast	IGMP (v2/v3) Snooping, up to 255 multicast Groups IGMP Querier mode support MLD (v1/v2) Snooping, up to 255 multicast Groups MLD Querier mode support
	QoS	Traffic classification based, Strict priority and WRR 8-Level priority for switching - Port Number - 802.1p priority - 802.1Q VLAN tag - DSCP/TOS field in IP Packet
	Port Mirroring	RX / TX / Both
	Security	IEEE 802.1x Port-Based / MAC-Based network access authentication. RADIUS users access authentication. IP-Based Access Control List (ACL). MAC-Based Access Control List. Source MAC / IP address binding. DHCP Snooping. Dynamic ARP Inspection. IP Source Guard. Auto DoS rule. IP address access management.
	SNMP MIBs	RFC-1213 MIB-II, IF-MIB, RFC-1493 Bridge MIB, RFC-1643 Ethernet MIB, RFC-2863 Interface MIB, RFC-2665 Ether-Like MIB, RFC-2819 RMON MIB (Group 1, 2, 3 and 9), RFC-2737 Entity MIB, RFC-2618 RADIUS Client MIB, RFC-2933 IGMP-STD-MIB, RFC3411 SNMP-Frameworks-MIB, IEEE 802.1X PAE, LLDP, MAU-MIB
	Link Aggregation	IEEE 802.3ad LACP / Static Trunk, Supports 1 group of 2 SFP ports per trunk
	Management Interface	Console, Telenet, Web Browser, SNMP v1, v2c and v3

# Specifications

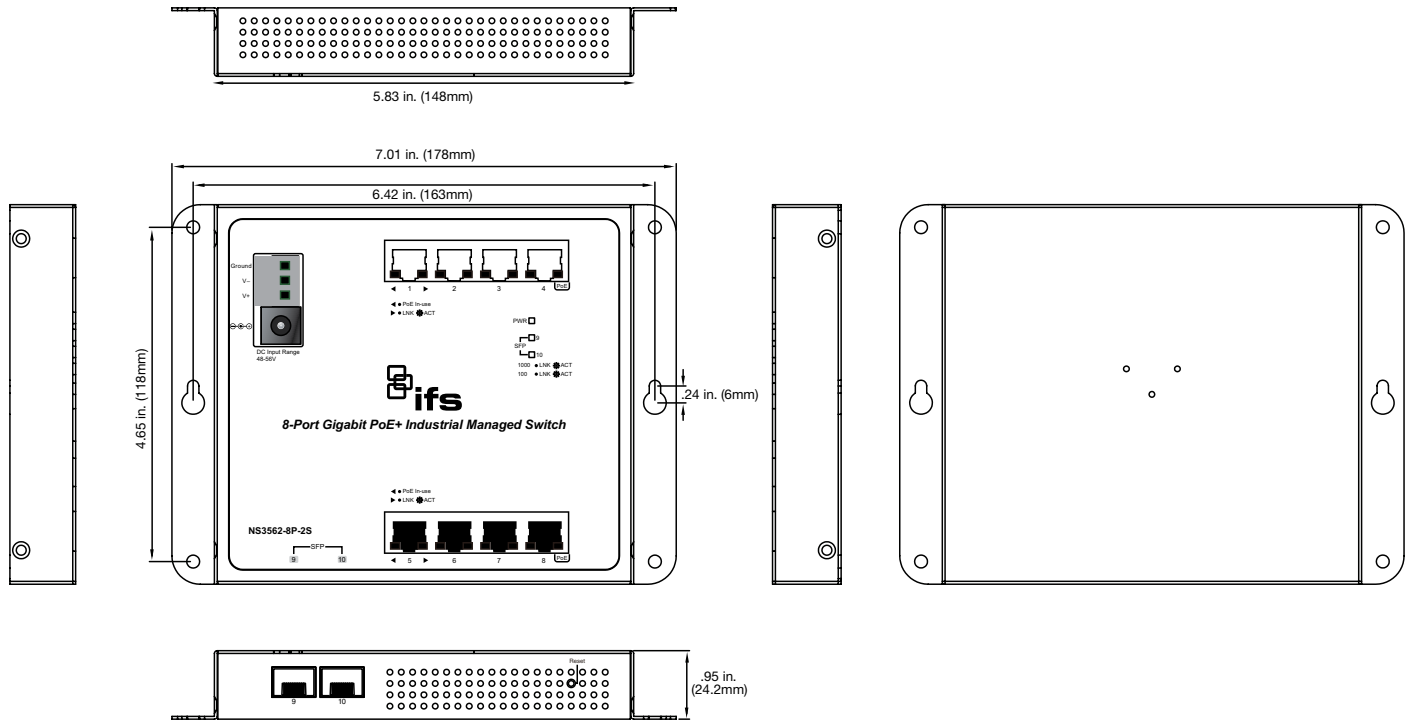
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<b>Power over Ethernet (PoE)</b>	IEEE PoE Standard	IEEE 802.3af/IEEE 802.3at Power over Ethernet/PSE
	Total Max. PoE Power Budget	200W
	Maximum Devices	8
	Output Power (per-port)	48~56 VDC, 350mA max. 15.4 watts (IEEE 802.3af) or 48~56 VDC, 590mA max. 30 watts (IEEE 802.3at) per port - dependent on power supply used
	PoE Pin Assignment	1/2(+), 3/6(-)
<b>LED Status Indicators</b>	System	Power (Green)
	10/100/1000Mbps Ports	PoE in-Use (Amber) LNK/ACT (Green)
	SFP GigE Uplink Ports	1000 (Green), LNK/ACT (Amber)
<b>Electrical &amp; Mechanical</b>	Power Input 1 (Primary Power)	52~56VDC
	Electrical Fast Transient (EFT) Protection	6KV DC
	Power Connector	3-pin terminal block or DC power receptacle
	Enclosure	IP-30 Metal Case
	Mounting	Wall-mount
	Dimensions (in/cm) (W x D x H)	7 x 1 x 5.5 in., (178 x 25 x 134mm)
	Weight (lbs/g)	1.41 lbs., 640g
<b>Environmental</b>	Operating Temperature	-40°C~75°C
	Storage Temperature	-40°C~85°C
	Relative Humidity	5%~95% (non-condensing)
<b>Standards Compliance</b>	Regulatory Standards	FCC Part 15 Class A, CE
	IEEE/RFC Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3x Flow Control and Back Pressure IEEE 802.1d Spanning Tree Protocol 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 802.3af Power over Ethernet RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP Version 1 RFC 2236 IGMP Version 2
	IEC Standards	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

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Industrial PoE+ Managed Switch

## Dimensional Diagrams



## Ordering Information

<b>NS3562-8P-2S</b>	Low-profile Wall-mount Industrial PoE+ Managed Switch (Wide Operating Temp. -40°C~75°C)
<b>Included Accessories</b>	User's Manual, Wall Mount Kit, Magnet Kit

Note: This switch requires 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. IFS S25 or S35 Series SFPs are recommended.

Note: External power supply must be purchased separately.

## Accessories

<b>SFP</b>	S30 Series
<b>SFP</b>	S35 Series (wide-temp)
<b>SFP</b>	S20 Series
<b>SFP</b>	S25 Series (wide-temp)
<b>PS48VDC480W-DIN</b>	48VDC Industrial 480W DIN-rail Power Supply



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