

NS3562-8P-2S

8+2 Industrial Gigabit Managed PoE+ Flat Wall Mount Switch

Overview

The IFS® NS3562-8P-2S is an Industrial Gigabit PoE+ Managed flat form factor Switch equipped with eight 10/100/1000Mbps RJ45 ports with PoE+ (30w) capabilities and two 100/1000Mbps SFP (fiber) uplink ports. These are fully managed Layer 2+ switches providing a robust industrial hardened design that provides for rapid 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.

Industrial-grade Network Redundancy and Recovery

Ideal for use in implementing highly fault-tolerant ring and mesh network architectures, these switches are well suited for harsh environments such as industrial security, factory automation and intelligent transportation systems (ITS).

Robust Hardened Design

With an IP-30 rated enclosure, IFS Industrial Gigabit Managed Switches provide a high level of immunity 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 to 75° C temperatures found in difficult environments such as plant floors or in curbside traffic control cabinets.

Details

- Flat, wall mount form factor
- 8-port 10/100/1000Base-T with PoE+
- 2-ports SFP (fiber) 100/1000Base-X
- High-performance Switch Architecture
- Up to 20Gbps non-blocking switch fabric
- 9K bytes Jumbo frame support
- 8K MAC address table, automatic source address learning and aging
- IGMP (v1/v2/V3) Snooping, up to 255 multicast Groups with IGMP Querier mode support, and MLD (v1/v2) Snooping, up to 255 multicast Groups with MLD Querier mode support
- VLAN Support - up to 255 VLANs
- Quality of Service (QoS), 802.1p priority, 802.1Q VLAN tag, DSCP/TOS field in IP Packet
- MAC Filtering and Source IP/MAC address port-binding
- Complies with IEEE 802.3af / IEEE 802.3at Power over Ethernet / End-Span PSE and up to 8 IEEE 802.3af / 802.3at devices powered
- IP30 metal enclosure, DIN Rail and Wall Mount Design (complete with magnetic mounting kit)
- Wide operating temperature range of -40°C ~ +75°C

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Technical Specifications

Category

Category	Industrial
Management	Managed
Managed	Yes
PoE	Yes

Physical ports

No. of ports	8
Port type	Gig
Speed	Gigabit
PoE/PoE+	8 port PoE/8 port PoE+
Fiber port	2
Supported SFPs	S20/S25 series, S30/S35 series
SFP speed	100/1000

Switch Performance

Switch fabric	20 Gbps
Throughput (Mpps)	14.88
Mac table	8 K
Jumbo frame support	9 K
Switch Architecture:	Store-and-Forward
Switch Fabric:	20Gbps (non-blocking)
Switch Throughput:	14.8Mpps @64Bytes
Mac Address Table:	8K entries
Share Data Buffer:	4Mbit
Jumbo Frame Size:	9Kbytes
Flow Control:	Back pressure for Half-Duplex, IEEE 802.3x Pause Frame for Full-Duplex

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
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; 1 to 1 monitoring
Bandwidth Control:	Bandwidth control per port: Ingress: 500Kb~1000Mbps, Egress: 500Kb~1000Mbps
VLAN:	IEEE 802.1q tagged-based VLAN; Port-based VLAN; Q-in-Q tunneling; Up to 255 VLANs groups; Private VLAN, MAC-Based VLAN, Protocol-Based VLAN, Voice VLAN, MVR (Multicast VLAN Registration)
Link Aggregation:	IEEE 802.3ad LACP / Static Trunk, Supports Static Trunk, supports 1 group of 2 SFP ports per trunk
Quality of Service (QoS):	Traffic classification based, Strict priority and WRR; 8-level priority for switching - Port Number - 802.1p priority - 802.1Q VLAN tag - DS/TOS field in IP Packet
Multicasting/IGMP:	IGMP (v1/v2/v3) Snooping, up to 255 multicast Groups with IGMP Querier mode support, MLD (v1/v2) Snooping, up to 255 multicast Groups with MLD Querier mode support
Security:	IEEE 802.1x Port-Based / MAC-Based network access authentication. RADIUS authentication. IP-Based Access Control List (ACL). MAC-Based Access Control List. Source MAC / IP address binding.

General

Storm control	Broadcast, Multicast, Unicast
Security	802.1x, RADIUS, Source MAC / IP address binding, ACL
DHCP snooping	Yes
Fault relay output	No

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Electrical & Mechanical

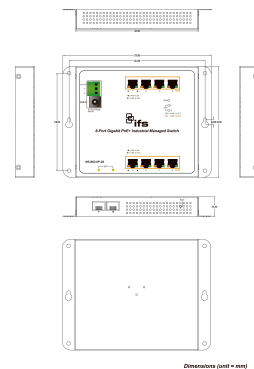
Power Input 1:	52 to 56 VDC, 5A (max)
Power Input 2:	52 to 56 VDC, 5A (max)
Electrical Fast Transient (EFT): Protection:	6KV DC
Power: Connector:	3-pin terminal block or DC power receptacle
Enclosure:	IP-30 Metal Case
Mounting:	Wall-mount
Dimensions (WxDxH): in/cm:	178 x 25 x 134 mm
Weight; lbs/kgs:	640 g

Standards Compliance

Regulatory Standards:	FCC Part 15 Class A, CE
IEEE Standards (1):	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX/100Base-FX; IEEE 802.3z Gigabit SXBX/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 802.1s Multiple 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
RFC Standards:	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)

Accessories

SFP (100Mbps):	S25 Series (wide-temp)
SFP (1000Mbps):	S35 Series (wide-temp)
PS48VDC480W-DIN:	48VDC (480W) DIN rail Power Supply



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