

NS3550-8T-2S-V2

8-port + 2-SFP Industrial Gigabit Managed Switch

Overview

The IFS® NS3550-8T-2S-V2 is an Industrial Gigabit Managed Switch equipped with eight 10/100/1000Mbps RJ45 ports 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. 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, its standards-compliant implementation ensures interoperability with equipment from other vendors.

Industrial-grade Network Redundancy and Recovery

These switches not only incorporate the industry standard Rapid Spanning Tree Protocol (IEEE 802.1w RSTP), but also an advanced Industrial Fail-Safe (IFS) technology accommodating multiple redundant ring topologies and improved network recovery time of less than 20ms. The switches incorporate a redundant power supply system to further enhance network reliability and uptime. 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.



Dettagli

- 8-port 10/100/1000Base-T
- 2-ports SFP (fiber) 100/1000Base-X
- RS-232 DB9 console interface for basic switch management and setup
- 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 ageing
- 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 groups out of 4094 VLAN IDs, MVR (Multicast VLAN Registration), Voice VLAN, MAC-Based VLAN, Protocol-Based VLAN
- Quality of Service (QoS), 802.1p priority, 802.1Q VLAN tag, DSCP/TOS field in IP Packet
- IEEE 802.3ad LACP / Static Trunk, Supports 5 groups of 8-Port trunk support
- Advanced Security
- MAC Filtering and Source IP/MAC address port-binding
- Circuit protection prevent power interference between ports
- Robust Hardened Design
- IP30 metal enclosure, DIN Rail and Wall Mount Design
- Wide operating temperature range of -40°C ~ +75°C

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Specifiche tecniche

Generale

Anello veloce	Si (ERPS)
Controllo della tempesta	Broadcast, Multicast, Unicast
Sicurezza	802.1x, ACL, RADIUS, Source MAC / IP address binding, TACACS+
Snooping DHCP	Si
Uscita guasto relè	Si

Categoria

Categoria	Industriale
Gestione	Gestito
Gestito	Si
PoE	No

Porte fisiche

No. di porte	8
Tipo porta	Gig
Velocità	Gigabit
Porta fibra	2
Supporto SFPs	S20/S25 series, S30/S35 series
Velocità SFP	100/1000

Cambia prestazioni

Cambia tessuto	20 Gbps
Velocità effettiva (Mpps)	14.88
Tavolo Mac	8 K
Supporto Jumbo frame	9 K

Funzioni di livello 2

Interfaccia di gestione	Console, Web, Telnet, SNMP 1,2,3, SSH/SSL secure access
Snooping IGMP	255 Group, Snooping v1, v2, v3
Query IGMP	Si
VLAN, QoS	256, yes
Lista controllo accessi	123 entries

Elettrico

Alimentazione ridondante	Yes
Tipo di alimentatore	12 a 48 VDC
Consumo di energia	20 W

Fisico

Dimensioni fisiche	88 x 135 x 56 mm
Peso netto	720 g
Colore	Nero
Materiale	Metallo
Tipo di montaggio	barra DIN, Montaggio a parete
Impilabile	No

Ambientale

Temperatura operativa	-40 to +75°C
Ambiente	Interno
IP rating	IP30

Regolatorio

IEC standard	IEC60068-2-27 (shock), IEC60068-2-32 (free fall), IEC60068-2-6 (vibration)
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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)

