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.

Détails

- 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 -40ºC ~ +75ºC

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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, TACACS+
Recherche DHCP	Oui
Sortie relais défaut	Oui

Catégorie

Catégorie	Industriel
Gestion	Géré
Géré	Oui
PoE	Non

Ports physiques

Nombre de ports	8
Type de port	Gig
Vitesse	Gigabit
Port fibre	2
Prise en charge SFP	Série S20/S25, Série S30/S35
Vitesse SFP	100/1000

Performances des commutateurs

Structure de commutation	20 Gbps
Débit (Mpps)	14.88
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

Alimentation redondante	Oui
Type de bloc d’alimentation	12 à 48 VCC
Consommation électrique	20 W

Caractéristiques physiques

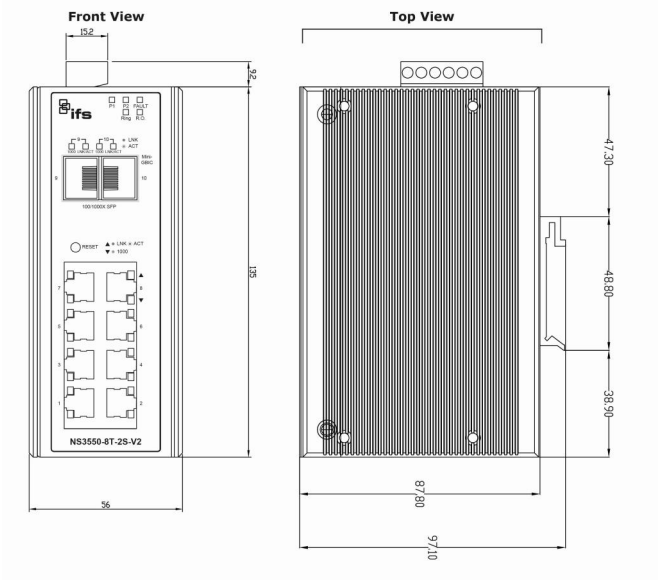
Dimensions physiques	88 x 135 x 56 mm
Poids net	720 g
Couleur	Noir
Matériel	Métal
Type de montage	Rail DIN, Fixation murale
Empilable	Non

Environnement

Température de fonctionnement	-40 to +75°C
Environnement	Intérieur
Indice de protection	IP30

Régulateur

Normes IEC	IEC60068-2-27 (choc), IEC60068-2-32 (chute libre), IEC60068-2-6 (vibration)



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