

IDS5008F4

Layer 3 Din-rail Managed 8 Ports Gigabit Industrial Switch with 4 10G SFP+ uplink Ports



Product Description:

The IDS5008F4 is a high-performance Layer 3 managed industrial switch which is design based on Broadcom chipsets, engineered to deliver exceptional reliability for mission-critical applications such as industrial rolling stock, transportation systems, and other demanding industrial environments. It features 8 × 10/100/1000BASE-T RJ45 ports and 4 × 10G SFP+ fiber slots, enabling versatile and high-bandwidth connectivity for hybrid copper and fiber network deployment.

Designed for seamless integration into robust network architectures, the switch supports full wire-speed L2/L3 switching and advanced security capabilities, including Access Control Lists (ACL), VLAN segmentation, and IEEE 802.1X authentication—making it an ideal solution for secure and efficient network aggregation. Its support for static routing and RIPv1/v2 further enhances network scalability and management.

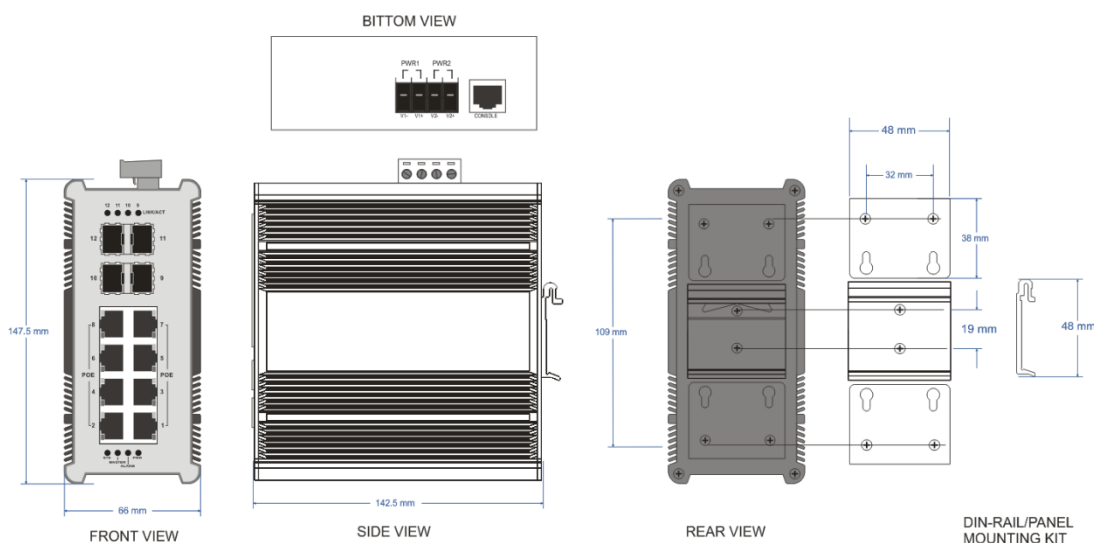
The IDS5008F4R also ensures rapid network resilience with sub-20ms recovery in ring topological, significantly reducing downtime in critical operations. Built to withstand harsh conditions, it offers extended operational flexibility across a wide temperature range of -40 ° C to +70 ° C, supports dual redundant power inputs, and features a rugged, fan-less design for reliable performance in environments with high vibration, dust, or moisture. This combination of performance, security, and durability makes it a trusted choice for industrial automation, intelligent transportation, and outdoor networking applications.

Product Features:

- IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3ae
- Provides 8 10/100/1000 Base-TX ports + 4 10G SFP+ ports
- High back-plane bandwidth 24Gbps
- Support MLD Snooping

- Support standard IP/ Extend IP / MAC IP / ARP ACL
- Support IGMP snooping for Multi-media application
- Support Port mirror and bandwidth control
- Support IEEE802.3x Flow control
- Support Port Based VLAN / 802.1Q Tag VLAN
- Support IEEE802.3ad Port trunk with LACP
- Support Spanning tree protocol IEEE802.1d/802.1w/802.1s
- Support IEEE 802.1p class of service
- Support IEEE 802.1x user authentication
- Support Broadcast storm filter
- Support DHCP client, DHCP relay, DHCP server, DHCP snooping
- Support Static Route, Policy Route, RIP, OSPF, VRRP
- Support System event log
- Support command line interface management
- Management by Web / SNMP / SSH / Telnet / Console
- Surge protection for power port and data ports
- Wide power input: 44~57VDC
- Wide working temperature: -40~75°C
- IP30 Aluminum case
- 200,000 hours MTBF (Parts count reliability prediction)
- EMI: FCC Part 15, CISPR (EN55022) Class A
- EMS: EN61000-4-2 (ESD), EN61000-4-3 (RS)
- EN61000-4-4 (EFT), EN61000-4-5 (Surge)
- EN61000-4-6 (CS), EN61000-4-6 (Common Mode Conduction)
- Industrial: IEC6100-6-2
- Railway: EN50155, EN50121-4
- Transportation: NEMA TS-2
- Warranty: 5 years

Product Dimension:



Product Specifications:

Attributes	
Networking Interfaces	8 x 10/100/1000 Mbps RJ45 Ethernet Ports 4 x 10G SFP+ Ports
Management Interface	Console
LED Indicators	Power, Link/Act
Performance	
Switching Capacity	96 Gbps
Forwarding Capacity	71.4 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2Gbit
Flash Memory	512 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16KB
ACL Table	1K
VLAN Quantity	4K
VLAN Interface	512
Multicast Groups	512
Routing Host	512
Routing Entries	64
Port Queues	8
Physical	
Dimensions	147.5 x 142.5 x 66 mm
Weight	2.5KG
Operating Temperature	-40 to 70°C
Storage Temperature	-40 to 70°C
Operating Humidity	5 to 95% Noncondensing
Power Method	12~57VDC
Max. Power Consumption	20W
EMC Safety	FCC, CE, RoHS
Reliability	200,000 hours MTBF
Port Configuration	
Enable and Disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed
Flow Control	Support IEEE802.3x full-duplex Support half-duplex backpressure
Storm Control	Support broadcast, multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit

Link Aggregation	Support manual Link Aggregation Support LACP Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into isolated protected port from each other
MAC Configuration	
MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Support limit the number of MAC-addresses Learning per port
VLAN Configuration	
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
Reliability Protocol	
Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
L3 Routing	
Static ARP & Dynamic ARP	Support
Static Routing	Support
Policy Routing	Support
RIP	Support RIP v1/v2
OSPF	Support OSPF v2
VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support
MVR	Support
GMRP	Support
Access Control List (ACL)	
Based on Standard IP	Support
Based on Extend IP	Support
Based on MAC IP	Support

Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support
Quality of Service (QOS)	
Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(DiffServ)	Support
DHCP	
DHCP Client	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
DHCP Snooping	Support
Security	
Administrative Security	Support start and end TELNET, WEB and SNMP serve Support TELNET, WEB and SNMP serve binding with Standard IP ACL Support control the number of user for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between static configuration IP, MAC and Port
AAA	Support 802.1x protocol Support RADIUS protocol Support RADIUS server authentication authorization and bill Support MAC-based 802.1X authentication. Support 802.1x guest VLAN
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC port binding Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever
Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing
IPv6	
ICMPv6	Support
IPv6 Neighbor Discovery	Support
MLD Snooping	Support
IPv6 Telnet	Support
IPv6 Static Route	Support
Management Feature	
CLI Management	Support serial port management Support TELNET management Support SSH management
WEB Management	Support

SNMP Management	Support SNMP protocol Support SNMP TRAP Support standard and private MIB
User management	Support multi-user management
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support
Configuration Download / Upload	Support
Upgrade Firmware	Support
Timer Management	Support local timer management Support SNTP protocol get clock
Debugging Tools	
PING	Support
TRACEROUTE	Support
TELNET Client	Support
Package List	
Industrial Switch	1pcs
Hardware User Manual	1pcs
Power Cord	1pcs
DB9 to RJ45 Cable	1pcs
Rack Mount Kit	2pcs
Rubber Feet	4pcs
Warranty Card	1pcs

Order Information:

Switch Models	
IDS5008F4	Layer 3 Din-Rail Industrial 8 Ports Gigabit Switch with 4 10G SFP+ uplink ports
SFP Modules	
GSFP-RJ45	1000M SFP module, RJ45 port
GSFP-M-LC-R5	1000M SFP module, multi-mode, 500M, 850nm, LC
GSFP-S-LC-20	1000M SFP module, single-mode, 20km, 1310nm , LC
GSFP-S-LC-40	1000M SFP module, single-mode, 40km, 1310nm, LC
GSFP-S-LC-80	1000M SFP module, single-mode, 80km, 1550nm, LC
XGSFP-RJ45	10G SFP module, RJ45 port
XGSFP-M-LC-01	10G SFP module, multi-mode, 500M, 850nm, LC
XGSFP-S-LC-20	10G SFP module, single-mode, 20km, 1310nm , LC
XGSFP-S-LC-40	10G SFP module, single-mode, 40km, 1310nm, LC
XGSFP-S-LC-80	10G SFP module, single-mode, 80km, 1550nm, LC