

Product Highlights

Rugged, Hardened Design

Design to operate in wide temperature ranges, vibration, shock, allowing the switches to be deployed in enclosures or cabinets in outdoor locations

High Availability

Comprehensive network redundancy features with fast fault recovery, together with advanced security features provides industrial-grade reliability and protection

Multi-layer ACL Support

Flexible combination of Layer 2/3/4 support for VLAN ID, MAC address, Ether type, source/destination IP address, UDP/TCP, DSCP or TsS value



DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch

Features

Advanced QoS Comprehensive Security Features Multi-Layer ACL IP-30 Ingress Protection Operating Temperature • -40°to 75°C

Power source

- Redundant Dual DC Power Inputs
- Reverse Polarity Protection

Ring Protection with < 20ms

Environmental Test

- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6

Safety Certifications

- UL compliance
- CE/FCC

Fan-less design

The DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch are designed specifically to withstand temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity.

The DIS-700G-28XS L2+ Gigabit Managed Switch with 10 Gigabit uplinks is a 28-port aggregation switch. It provides high overall throughput and reduces the response time for time-sensitive video, voice and data applications. It offers advanced intelligent Quality of Service (QoS) features such as SPQ, WRR, SPQ+ WRR scheduling schemes with hierarchical perport, per queue shaping & scheduling with bandwidth management.

Customers

The DIS-700G Series family of switches is ideal for customers looking for cost-effective and customisable networking solutions with redundancy, security and advanced QoS functionalities, designed for industrial environments.

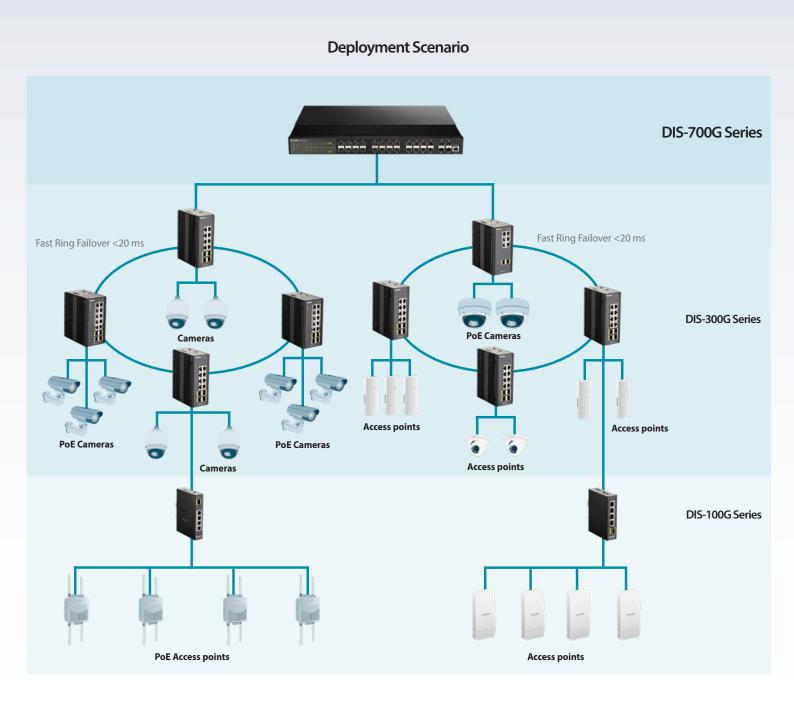
Application

- Challenging environmental conditions
- · High-end network redundancy topologies
- High ambient temperatures

Market

- Heavy industrial / factory automation
- Intelligent transport system (ITS) / railway applications
- · City surveillance / smart cities

D-Link[®] DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch



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Technical Specifications	DIS-700G-28XS	
Ethernet		
Ethernet Interfaces	24 x SFP ports 4 x 10G SFP+ slots (1G SFP backwards compatible)	
Operating Mode	Store and forward, L2 wire-speed/non-blocking switching engine	
MAC Addresses	8K	
Jumbo Frames	9K Bytes	
SFP/SFP+ (pluggable) Ports		
Port Types Supported	Gigabit fibre multimode, fibre single mode, fibre long-haul single mode 100/1000BaseF (SX/LX/LH)	
Fibre Port Connector	LC typically for fibre (depends on module)	
10G SFP+	10G SFP+ slots (1G SFP backwards compatible)	
Other Interfaces		
Console Port	RJ-45 port (RJ45-to-RS232 DB9 connector cable included)	
Alarm Relay Output	Relay output with current carrying capacity of 2A @ 24 VDC	
USB Port	1 x USB 2.0 Type A port	
Network Redundancy		
Fast Failover Protection Rings	Link loss recovery < 20ms Single & Multiple rings supported	
Spanning Tree Protocol	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP BPDU forwarding and filtering	
IEEE 802.3ad Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)	
Bridge, Virtual Local Area Networks (VLAN	ls) & Protocols	
Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)	
MaxVLANs	2048	
VLAN Types	Port-based VLANs, IEEE 802.1Q tag-based VLANs, IEEE 802.1v protocol-based VLANs, IEEE 802.1ad Double Tagging (Q in Q) Private VLAN	
VLAN Operations	Attach/Remove/Replacement VLAN tag	
MVR (Multicast VLAN Registration)	Yes	
Multicast Protocols	IGMP v1, v2 and v3 with up to 512 multicast groups IGMP snooping and querying Immediate leave and leave proxy	
Traffic management engine & QoS		
Policy-Based Access Control Engine	Policy/profile-based Access Control List (ACL) Multi-layer ACL support Flexible combination of well-known fixed Layer 2/3/4 fields: • VLAN ID, Source/Destination MAC address, EtherType • Source/Destination IP address, IP protocol number • UDP or TCP, Source/Destination port number of TCP/UDP • DSCP or ToS value Actions per rule: Deny, Allow, Queue mapping, rate limit, mirror, CoS remark Max number of profiles per switch: 20 Max number of rules per profile: 32	
Number of Queues per Port	8	
Scheduling Schemes	SPQ, WRR, SPQ + WRR	
Traffic Shaper	Hierarchical per port and per queue shaping & scheduling with bandwidth management	
Traffic Policer	Ingress rate limit in 1K bps granularity TrTCM (Two Rate Three Color Marker) policer engine	
Security		
Port Security	IP and MAC-based Access control; Policy-based Access control IEEE 802.1X authentication Network Access Control RADIUS Client for IEEE 802.1X	
Storm Control	Multicast/Broadcast/Flooding Storm Control on per port and per VLAN basis	

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Management	
User Management Interfaces	Industrial-like CLI (command line interface) WEB-based Management SNMP v1, v2c, v3 Telnet (5 sessions)
Management Security	HTTPs, SSH
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog Policy-based stream mirroring Ethernet Copper connection diagnostic tool
NTP/SNTP	Yes
Power	
Input Voltage Range	Dual 20-57 VDC
Power Consumption	35 W
Indicators	
Power Status	Indication of power input status
Ethernet Port	Link & Speed
Environmental and Compliances	
Operating Temperature Range	-40 to +75°C
Storage Temperature Range	-40 to +85 °C
Humidity (Non-Condensing)	5 to 95% RH
Vibration, Shock & Freefall	Vibration: IEC60068-2-6; Shock: IEC60068-2-27; Free Fall: IEC60068-2-32
Certification Compliance	UL 61010-1 compliance, CE, FCC, EN 61000-6-2, EN 61000-6-4
EMI	Radiated Emission: CISPR 22, EN55022 Class A Conducted Emission: EN55022 Class A
EMS	ESD: IEC61000-4-2 Radiated RF (RS): IEC61000-4-3 EFT: IEC61000-4-4 Surge: IEC61000-4-5 Conducted RF (CS): IEC61000-4-6
RoHS & WEEE	RoHS (Pb free) and WEEE compliant
MTBF	> 25 years
Mechanical	
Ingress Protection	IP30
Dimensions	440 x 44 x 318.5 mm
Weight	4.5 kg
Installation Option	19" rack mounting

DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch

Accessories	
SFP Transceivers	
DIS-S301SX	 1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver up to 550 m -40~85°C operating temperature
DIS-S302SX	 1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver up to 2 km -40~85°C operating temperature
DIS-S310LX	 1-port Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre Transceiver up to 10 km -40~85°C operating temperature



For more information: www.dlink.com

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