

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

Flexible Options

Wide selection of port density, media and PoE provides customer with the flexibility to choose the right switch that best fits their requirement



DIS-300G Series Industrial Gigabit Managed Switches

Features

IP-30 Ingress Protection

Operating Temperature

• -40°to 75°C

Power source

- Redundant Dual Power Inputs
- Reverse Polarity Protection
- Overload Current Protection

Din-Rail and Wall mounting options

Ring Protection with < 20ms

Environmental Test

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

Safety Certifications

- UL 60950-1
- CE/FCC

Fan-less design

The DIS-300G Series Industrial Gigabit Managed Switches are designed specifically to withstand wide temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With it's 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.

With its comprehensive feature set, DIS-300G managed switches are easy to configure, partition and organise user's network and provide reliable and quality of service. The DIS-300G-8PSW and DIS-300G-14SPW switches include PoE switches that are compliant with both IEEE 802.3af and IEEE 802.3at PoE standards and delivering up to 30 watts power per port along with data on standard Ethernet cabling. The switches can be used to power any IEEE 802.3af/at compliant PoE PD devices, which eliminates the need for additional wiring. They also provide additional PoE power management features which can greatly reduce the deployment effort of planning PoE power budget.

Customers

The DIS-300G Series family of switches is ideal for customers looking for cost-effective and customisable networking solutions with redundancy and security, designed for industrial environments.

Application

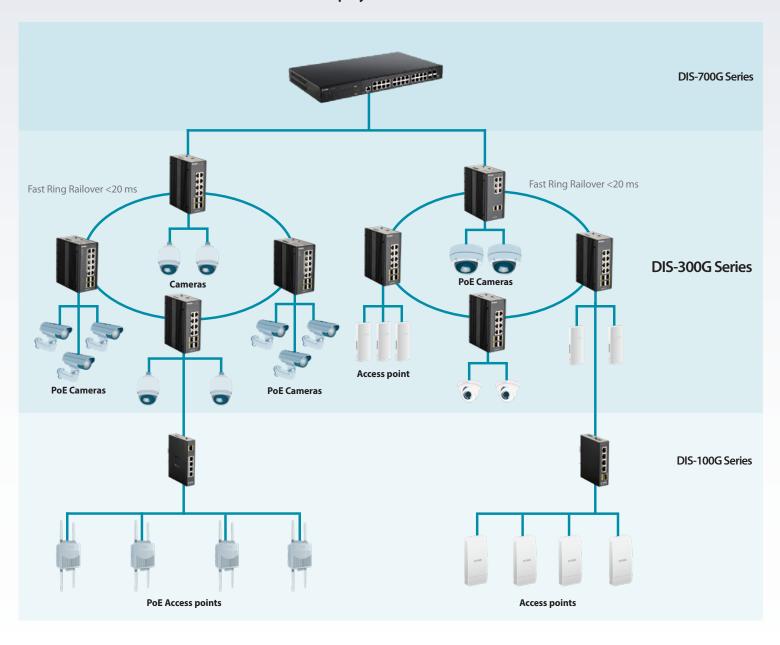
- · Challenging environmental conditions
- · High-end network redundancy topologies
- High ambient temperatures

Market

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



Deployment Scenario





DIS-300G Series Industrial Gigabit Managed Switches

Technical Specifications	DIS-300G-12SW	DIS-300G-8PSW	DIS-300G-14PSW	
Ethernet				
Ethernet Interfaces	8 x 100/1000BaseT ports 4 x 100/1000BaseSFP slots	4 x 100/1000BaseT PoE ports 2 x 100/1000BaseT ports 2 x 100/1000BaseSFP slots	8 x 100/1000BaseT PoE ports 2 x 100/1000BaseT ports 4 x 100/1000BaseSFP slots	
Operating Mode	Store and forward, L2 wire-speed/non-blocking switching engine			
MAC Addresses	8K			
Jumbo Frames	9K Bytes			
Copper RJ45 Ports				
Speed	10/100/1000 Mbps			
MDI/MDIX Auto-Crossover	Support straight or cross wired cables			
Auto-Negotiating	10/100/1000 Mbps speed auto-negotiation; Full and half duplex			
PoE				
PoE Standartd	802.3af, 802.3at, 60W (DIS-300G-14PSW port 1 and 2 only)			
PoE Power Budget		120 W	240 W	
SFP/SFP+ (pluggable) Ports				
Port Types Supported	SFP (pluggable) Ports 100/1000BaseSFP slot Support 100FX SFP transceiver Support 100/1000BaseT SFP transceiver			
Fibre Port Connector	LC typically for fibre (depends on module)			
Optimal Fibre Cable	Typical 50 or 62.5/125 μm for multimode (mm); Typical 8 or 9/125 μm for single mode (sm)			
Network Redundancy				
Fast Failover Protection Rings	Link loss recovery < 20ms Support Single & Multiple rings; Ring coupling; Dual-homing; Chain			
Spanning Tree Protocol	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP			
IEEE 802.3ad Port Trunk with LACP	Static trun	or Dynamic via LACP (Link Aggregation Cont	rol Protocol)	
Bridge, Virtual Local Area Networks (VLANs) & Protocols			
Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)			
Max VLANs	256	256 1024		
VLAN Types	Port-based VLANs; MAC-based VLANs; IP Subnet-based VLANs Protocol-based VLANs. IEEE 802.1Q tag-based VLANs RADIUS-assigned VLAN IEEE 802.1ad Double Tagging (Q in Q)			
Multicast Protocols	IGMP v1, v2 with up to 255 multicast groups IGMP snooping and querying Immediate leave and leave proxy Throttling and filtering			
LLDP		EEE 802.1ab Link layer Discovery Protocol (LLD	P)	
Traffic management & QoS				
Priority	IEEE 802.1p QoS			
Number of Queues per Port	8			
Scheduling Schemes	SPQ, WRR			
Traffic Shaper	port-based shaping			
RADIUS QoS		RADIUS-assigned QoS Class		
Security				
Port Security	IP and MAC-based access control IEEE 802.1X authentication Network Access Control Authentication via local database, RADIUS or TACACS+ AAA (Authentication, Accounting and Authorization)			
Storm Control	Multicast/Broadcast/Flooding Storm Control			



DIS-300G Series Industrial Gigabit Managed Switches

Macagement Interfaces Industriability CLI (comma dine interfaces) SMMP 11, 32, 53 MP 11, 32, 55 MP 11	Technical Specifications	DIS-300G-12SW	DIS-300G-8PSW	DIS-300G-14PSW
User Management Interfaces WBF based Management SMMP 1, 2c, 33 Tehns IS socials Management Security Based Telescone Upgrade & Restore Sign 2 Dagnostic Sign 2 Dagnostic Sign 2 Dagnostic Sign 2 MRS REC 1757 RMON 1, 23, 08 RF 2/37.42 And Manoring Etherret Copper connection diagnostic tool Sign 2 MBS REC 1757 RMON 1, 23, 08 RF 2/37.42 And MBR FC 1213 BMB, RFC 1423 Brdge MB, RFC 2233 F MB DPCP Cienct. Sever, Rely, Snooping, Option 3 System Statu Device info/status; REHer-ret port status Port Phot Sote 2 System Statu Device info/status; REHer ret port status; PGE tatus Port Phot Sote 2 Revere Protection Sote 2 Revere Rover Protection Yes Revere Rover Protection Yes Revere Rover Supplies DIS HB0.24,	Management			
Management seturny Get Client for Management Upgrade & Restore FTP for Curringuation inport/Export, FTP for Firmware Upgrade Dagnostic Systog Per VLAN minoring Per VLAN minoring Mills REC1757 RMON 12.3.9.187 ∠23-42 bridge Mills RFC-1213 Mills RFC-123 Mills RFC 2233 IF Mills DHCP Client, Server, Relay, Snooping, Option 82 NTP/SMTP Ver System Situ 0 Device info/status; Ethernet port status Power format Scheduling; power control: PoE PD power consumption Power format Scheduling; power control: PoE PD power consumption Power forsumption Mas. 17W Kessee Space Spa	User Management Interfaces	WEB-based Management SNMP v1, v2c, v3		
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Diagnostic Per-VLN minoring SFP with DOM (Digital Diagnostic tool SFP with DOM (Digital Diagnostic Monitorial). Mills RFC 1757 RMON 1,2,3; RF C3P4 24 Profession Mills+; RFC-1432 Bridge Mills; PFC-1432 Bri	Upgrade & Restore			
DHCP Client, Server, Relay, Snooping, Option 82 NTF/SNP Yes System Status Device info/status; Ethernet port status Device info/status; Ethernet port status; PDE status Power Input Scheduling; power control; POE PD power consumption Power Input Redundant Input Terminals Input Voltage Range 12-58 VDC 48-58 VDC (54-58V VDC for IEEE802.3at POE/PSE application) Reverse Power Protection Yes Transient Protection Yes Transient Protection Yes Opewer Consumption Max. 17W Max. 56W with 2400 VPE power delivered Compatible Power Supplies DIS-H20-34, DIS-H40-34, DIS-H20-34, DIS-H20-34, DIS-H20-34, DIS-H20-3	Diagnostic	Per VLAN mirroring Ethernet Copper connection diagnostic tool		
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Storage Temperature Range40 to +85 °CHumidity (Non-Condensing)5 to 95% RHVibration, Shock & FreefallVibration: IEC60068-2-6; Shock: IEC60068-2-27; Free Fall: IEC60068-2-32Certification ComplianceUL 60950-1, CE, FCCEMCFCC Part 15, EN 61000-6-2, EN 61000-6-4, EN 61000-4-2, -3, -4, -5, -6RoHS & WEEERoHS (Pb free) and WEEE compliantMTBF > 25 yearsMechanicalIP30Ingress Protection $61 \times 154 \times 109$ mmWeight1.086 kg1.086 kg1.308 kg1.308 kg1.41 kg	Environmental and Compliances			
Humidity (Non-Condensing) 5 to 95% RH Vibration, Shock & Freefall Vibration: IEC60068-2-6; Shock: IEC60068-2-32 Certification Compliance UL 60950-1, CE, FCC EMC FCC Part 15, EN 61000-6-2, EN 61000-6-4, EN 61000-4-2, -3, -4, -5, -6 RoHS & WEEE RoHS (Pb free) and WEEE compliant MTBF > 25 years Mechanical IP30 Dimensions 61 x 154 x 109 mm 1.086 kg 1.308 kg 1.41 kg	Operating Temperature Range	-40 to +75°C		
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Certification Compliance UL 60950-1, CE, FCC EMC FCC Part 15, EN 61000-6-2, EN 61000-4-2, -3, -4, -5, -6 RoHS & WEEE RoHS (Pb free) and WEEE compliant MTBF > 25 years Mechanical IP30 Dimensions 61 x 154 x 109 mm 1.086 kg 1.308 kg	Humidity (Non-Condensing)	5 to 95% RH		
EMC FCC Part 15, EN 61000-6-2, EN 61000-4-2, -3, -4, -5, -6 RoHS & WEEE RoHS (Pb free) and WEEE compliant MTBF > 25 years Mechanical IP30 Dimensions 61 x 154 x 109 mm 77 x 128 mm Weight 1.086 kg 1.308 kg 1.41 kg	Vibration, Shock & Freefall	Vibration: IEC60068-2-6; Shock: IEC60068-2-27; Free Fall: IEC60068-2-32		
RoHS & WEEE RoHS (Pb free) and WEEE compliant MTBF >25 years Mechanical IP30 Dimensions 61 x 154 x 109 mm 77 x 154 x 128 mm Weight 1.086 kg 1.308 kg 1.41 kg	Certification Compliance	UL 60950-1, CE, FCC		
MTBF >25 years Mechanical IP30 Ingress Protection 61 x 154 x 109 mm 77 x 128 mm Dimensions 61 x 154 x 109 mm 1.308 kg 1.41 kg	EMC	FCC Part 15, EN 61000-6-2, EN 61000-6-4, EN 61000-4-2, -3, -4, -5, -6		
Mechanical IP30 Ingress Protection IP30 Dimensions 61 x 154 x 109 mm Veight 1.086 kg 1.308 kg 1.41 kg	RoHS & WEEE	RoHS (Pb free) and WEEE compliant		
Ingress Protection IP30 Dimensions 61 x 154 x 109 mm 77 x 154 x 128 mm Weight 1.086 kg 1.308 kg 1.41 kg	MTBF	> 25 years		
Dimensions 61 x 154 x 109 mm 77 x 154 x 128 mm Weight 1.086 kg 1.308 kg 1.41 kg	Mechanical			
Weight 1.086 kg 1.308 kg 1.41 kg	Ingress Protection		IP30	
	Dimensions	61 x 154 x 109 mm	77 x 154 x 128 mm	
Installation Options DIN-Rail mounting, Wall mounting	Weight	1.086 kg	1.308 kg	1.41 kg
	Installation Options	DIN-Rail mounting, Wall mounting		



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 		
Power Supplies			
DIS-H30-24	30W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature		
DIS-H60-24	60W 24VDC Ultra Slim DIN Rail PSU Input: 85 ~ 264VAC Output: 21.6 ~ 29V DC Din rail TS-35/7.5 or 15 mountable -30~70°C operating temperature 		
DIS-N240-48	240W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature		
DIS-N480-48	 480W 48VDC DIN Rail PSU Input: 90 ~ 264VAC Output: 48 ~ 55V DC Din rail TS-35/7.5 or 15 mountable -20~70°C operating temperature 		



For more information: www.dlink.com

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