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DIS-200G Series

Layer 2 Gigabit Industrial Smart Managed Switches

The DIS-200G Series Layer 2 Gigabit Industrial Smart Managed Switches are equipped with 8 PoE-capable 10/100/1000BASE-T ports (PoE models), 2 10/100/1000BASE-T ports, and 2 SFP ports. These switches feature a robust design making them ideal for deployment in industrial and outdoor cabinet surveillance settings, capable of withstanding the harshest environments. The DIS-200G Series furthermore integrates advanced management and security functions to

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High Redundancy and Reliability

The DIS-200G Series supports ERPS quick failover recovery for ring topologies that ensures minimal downtime and avoids any loss of data in mission-critical deployment settings. Meanwhile, the dual power input allows for a redundant power supply to make sure the device continues to operate in the event of a primary power supply failure.

Surveillance Traffic Optimization

The DIS-200G Series supports the Auto-Surveillance VLAN (ASV) feature. This automatically detects surveillance devices and puts them into a dedicated surveillance VLAN, segmenting this type of traffic from the rest of the network. This provides increased security of surveillance data, and gives the traffic a higher priority through the switch, minimizing the chances of video freezing or being delayed on live streams. A single switch can be used for both surveillance and data networks, removing the need for dedicated surveillance hardware while simultaneously reducing maintenance costs.

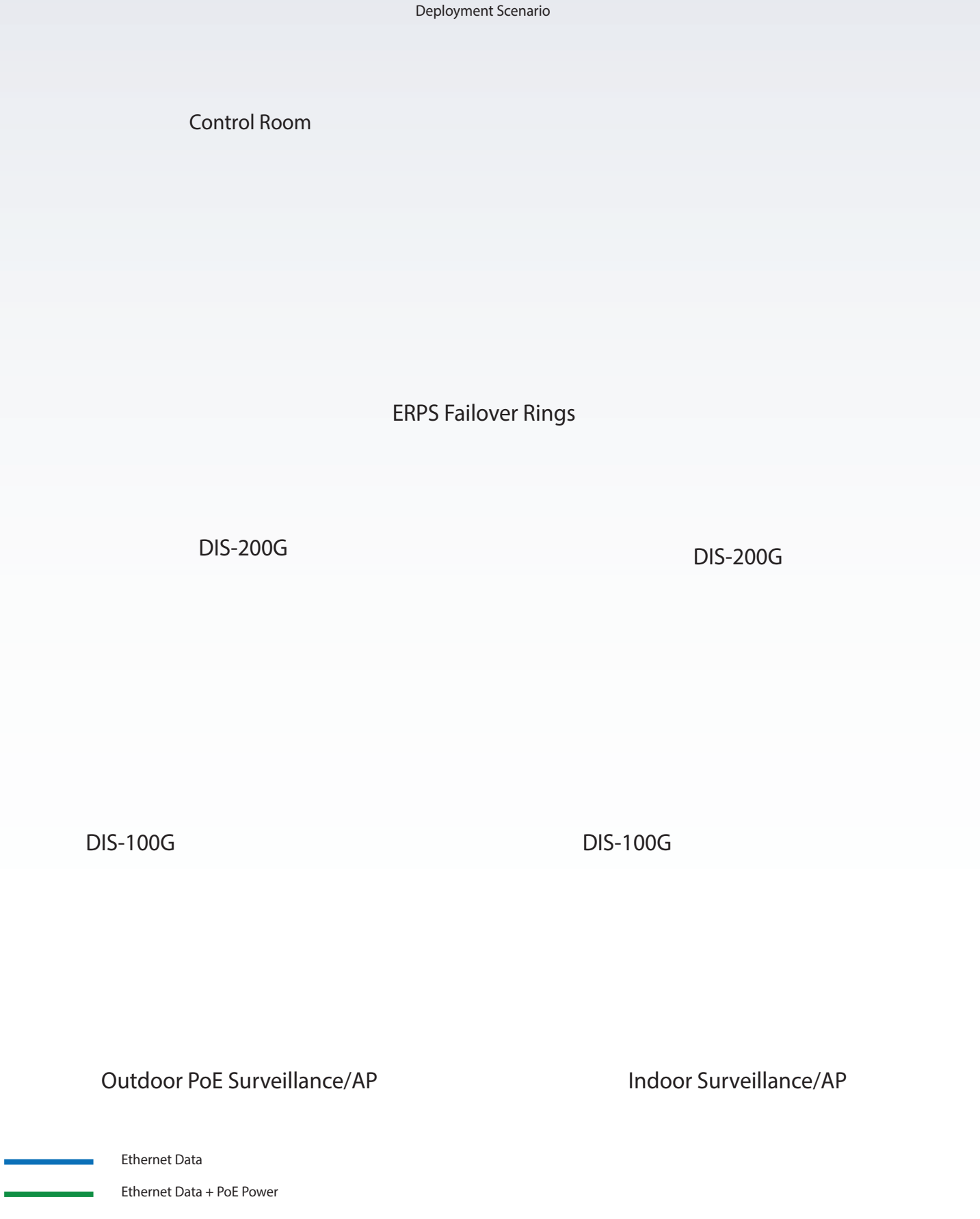
Easy Troubleshooting

The DIS-200G Series features loopback detection and cable diagnostics to help network administrators find and solve network problems quickly and easily. Loopback detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.

Power over Ethernet Support

The DIS-200G-12PS and DIS-200G-12PSW are PoE-ready switches with a total PoE budget of 240 W[1], capable of supplying up to 30 W of power per port to connected PoE-enabled devices. This effectively reduces deployment times, reduces cable clutter, and eliminates the need for dedicated power supplies to allow PoE-devices to be installed in remote locations.

Deployment Scenario



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Technical Specifications

General	DIS-200G-12S	DIS-200G-12SW	DIS-200G-12PS	DIS-200G-12PSW
Hardware Version	• A1	• A1	• A1	• A1
Number of Ports	• 10 x 10/100/1000BASE-T ports • 2 x SFP ports • 1 x RJ-45 Console port	• 10 x 10/100/1000BASE-T ports • 2 x SFP ports • 1 x RJ-45 Console port	• 8 x 10/100/1000BASE-T PoE ports • 2 x 10/100/1000BASE-T ports • 2 x SFP ports • 1 x RJ-45 Console port	• 8 x 10/100/1000BASE-T PoE ports • 2 x 10/100/1000BASE-T ports • 2 x SFP ports • 1 x RJ-45 Console port
Port Functions	• IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3ab for Gigabit Ethernet • IEEE 802.3z for Gigabit fiber • IEEE 802.3af/at Power over Ethernet (DIS-200G-12PS/DIS-200G-12PSW) • IEEE 802.3az-compliant			
Media Interface Exchange	• Auto-MDI/MDIX adjustment for all twisted pair ports			
Performance				
Switching Capacity	• 24 Gbps			
Maximum Forwarding Rate	• 17.85 Mpps			
MAC Address Table Size	• Up to 8K entries			
Transmission Method	• Store-and-forward			
PoE				
PoE Standards	• N/A	• N/A	• IEEE 802.3af/at	• IEEE 802.3af/at
PoE Capable Ports	• N/A	• N/A	• Ports 1 to 8	• Ports 1 to 8
PoE Power Budget	• N/A	• N/A	• Max. 240 W[1]	• Max. 240 W[1]
Physical				
Diagnostic LEDs	• SYS • ALM • PWR1/2/3 • Link/Activity/Speed	• SYS • ALM • PWR1/2/3 • Link/Activity/Speed	• SYS • ALM • PWR1/2/3 • Link/Activity/Speed • PoE status • PoE budget	• SYS • ALM • PWR1/2/3 • Link/Activity/Speed • PoE status • PoE budget
Power Input	• 12 to 48 V DC terminal block dual input • 12 V DC 4-pin DIN single power input	• 12 to 48 V DC terminal block dual input • 12 V DC 4-pin DIN single power input	• 48 to 54 V DC terminal block dual input • 54 V DC 4-pin DIN single power input	• 48 to 54 V DC terminal block dual input • 54 V DC 4-pin DIN single power input
Power Consumptions	• Maximum: 10.26 W • Standby: 5.94 W	• Maximum: 10.26 W • Standby: 5.94 W	• Maximum: 260 W (PoE on) • Maximum: 10.8 W (PoE off) • Standby: 7.02 W	• Maximum: 260 W (PoE on) • Maximum: 10.8 W (PoE off) • Standby: 7.02 W
Alarm Relay	• 1 A at 24 V			
Heat Dissipation	• 35.01 BTU/hr	• 35.01 BTU/hr	• 887.16 BTU/hr (PoE on) • 36.85 BTU/hr (PoE off)	• 887.16 BTU/hr (PoE on) • 36.85 BTU/hr (PoE off)
Weight	• 1.63 kg (3.59 lbs)	• 1.63 kg (3.59 lbs)	• 1.76 kg (3.88 lbs)	• 1.76 kg (3.88 lbs)
Dimensions	• 210 x 171.2 x 53 mm (8.27 x 6.74 x 2.09 in)			
Ventilation	• Fanless			
Operating Temperature	• -40 to 65 °C (-40 to 149 °F)	• -40 to 75 °C (-40 to 167 °F)	• -40 to 65 °C (-40 to 149 °F)	• -40 to 75 °C (-40 to 167 °F)
Storage Temperature	• -40 to 85 °C (-40 to 185 °F)			

Operating Humidity	• 0% to 95% RH, non-condensing			
Storage Humidity	• 0% to 95% RH, non-condensing			
Material	• IP30-rated metal casing			
Installation	• DIN rail/wall/rack mountable			
MTBF	• 276,773 hours	• 219,314 hours	• 213,112 hours	• 156,452 hours
Certifications	• CE • FCC • BSMI			
Safety	• UL60950-1			
EMI	• CISPR 22 • FCC Part 15B Class A			
EMS	• EN 61000-4-2 ESD • EN 61000-4-3 RS • EN 61000-4-4 EFT • EN 61000-4-5 • EN 61000-4-6 CS • EN 61000-4-8			
Environmental Tests	• IEC 60068-2-27 Shock • IEC 60068-2-32 Freefall • IEC 60068-2-6 Vibration			

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Software Features		

VLAN	• IEEE 802.1Q tagged VLAN
	• Port-based VLAN
	• Auto-Surveillance VLAN 2.0 (ASV 2.0)
	• Voice VLAN
	• Asymmetric VLAN
		• VLAN group
		  • Supports 128 static VLAN groups
		  • Max. 4094 VIDs
		• GVRP

L2 Features	• Flow Control
	  • IEEE 802.3x Flow Control
	  • HDL Blocking Prevention
	• Jumbo frames up to 9600 bytes
	• IGMP Snooping
	  • IGMP v1/v2 snooping
	  • IGMP v3 awareness
	  • Supports up to 256 IGMP snooping groups (shared with MLD snooping)
	  • IGMP Snooping Querier
	  • Support port-based fast leave
	• MLD Snooping
	  • MLD v1 snooping
	  • MLD v2 awareness
	  • Supports up to 256 MLD snooping groups (shared with IGMP snooping)
	  • MLD Snooping Querier
	  • Support port-based fast leave
	• IEEE 802.3ad Link Aggregation
	  • Supports 6 groups per device, 8 ports per group
	• Ethernet Ring Protection Switching (ERPS)
	  • G.8032 ERPSv1 single ring
		• Loopback detection
		• LLDP
		• Port mirroring
		  • One-to-One
		  • Many-to-One
		• Statistics
		  • Tx Ok
		  • Tx Error
		  • Rx Ok
		  • Rx Error
		• Spanning Tree Protocol (STP)
		  • IEEE 802.1D STP
		  • IEEE 802.1w RSTP
		  • IEEE 802.1s MSTP

Quality of Service (QoS)	• IEEE 802.1p Quality of Service (QoS)
	  • 4 queues per port
	  • Queue handling
	  • Strict Priority Queue (SPQ)
	  • Weighted Round Robin (WRR)
	  • Port-based bandwidth control (rate limiting)
	  • Ingress: 100 Kbps	

Security	• D-Link Safeguard • Traffic segmentation • Broadcast/Multicast/Unknown Unicast Storm Control • SSH	• DoS attack prevention • SSL • Port security
AAA	• Web-based access control	• RADIUS
Management	• Web-based UI (supports IPv4/IPv6) • Client-based D-Link Network Assistant (DNA) • Industry-standard CLI • SNTP • SNMP v1/v2c/v3 • SNMP trap • Telnet serve	• Password encryption • System Log • DHCP client • TFTP client • LLDP • D-Link Discovery Protocol (DDP) • Dual images
OAM	• Cable diagnostics	• Optical transceiver Digital Diagnostics Monitoring (DDM)

Green Technology	• Power saving by:
	  • Link status detection
	  • LED shut-off
	  • Port shut-off
	  • System hibernation
	  • IEEE 802.3az Energy-Efficient Ethernet (EEE)	

MIB/RFC Standards	• RFC768 UDP • RFC791 IP • RFC792 ICMP • RFC793 TCP • RFC826 ARP • RFC1213 MIB II • RFC1493 Bridge MIB	• RFC1907 SNMPv2 MIB • RFC2668 802.3 MAU MIB • RFC4133 Entity MIB • RFC4363 IEEE 802.1p MIB • ZoneDefense MIB • Private MIB

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Order Information	
Part Number	*Description*
DIS-200G-12S	10 x 10/100/1000 Mbps ports + 2 x SFP ports switch
DIS-200G-12SW	10 x 10/100/1000 Mbps ports + 2 x SFP ports switch with -40 to 75 °C operating range
DIS-200G-12PS	8 x 10/100/1000 Mbps PoE ports + 2 x 10/100/1000 Mbps ports + 2 x SFP ports switch
DIS-200G-12PSW	8 x 10/100/1000 Mbps PoE ports + 2 x 10/100/1000 Mbps ports + 2 x SFP ports switch with -40 to 75 °C operating range
DIS-200G Series Accessories	
DIS-RK200G	Standard 19" rack mounting kit
DIS-PWR40AC	40 W, 100 ~ 240 V AC input, 12 V DC output power adapter with 60 °C operating temperature
DIS-PWR180AC	180 W, 100 ~ 240 V AC input, 54 V DC output power adapter with 60 °C operating temperature
DIS-200G-RPK40	Rack mounting kit and 40 W, 100 ~ 240 V AC input, 12 V DC output power adapter with 60 °C operating temperature
DIS-200G-RPK180	Rack mounting kit and 180 W, 100 ~ 240 V AC input, 54 V DC output power adapter with 60 °C operating temperature
Optional SFP Transceivers	
DEM-310GT	1000BASE-LX, single-mode, 10 km, 0 to 70 °C operating temperature
DIS-S310LX	1000BASE-LX, single-mode, 10 km, -40 to 85 °C operating temperature
DEM-311GT	1000BASE-SX, multi-mode, 550 m, 0 to 70 °C operating temperature
DIS-S301SX	1000BASE-SX, multi-mode, 550 m, -40 to 85 °C operating temperature
DEM-312GT2	1000BASE-SX, multi-mode, 2 km, 0 to 70 °C operating temperature
DIS-S302SX	1000BASE-SX, multi-mode, 2 km, -40 to 85 °C operating temperature
DEM-314GT	1000BASE-LHX, single-mode, 50 km, 0 to 70 °C operating temperature
DIS-S330EX	1000BASE-EX, single-mode, 30 km, -40 to 85 °C operating temperature
DIS-S350LHX	1000BASE-LHX, single-mode, 50 km, -40 to 85 °C operating temperature
DIS-S380ZX	1000BASE-ZX, single-mode, 80 km, -40 to 85 °C operating temperature
Optional Accessories	
DPE-SP110	Outdoor PoE Ethernet Surge Protector
DPE-SP110I	Ethernet Surge Protector

[1] The actual available PoE budget depends on the power supply connected to the switch.

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