D-Link
Building Networks for People

Product Highlights

Robust Design

High EMC endurance, fanless design, and a wide operating temperature range combined with IP40 housing to withstand harsh operating environments

Industrial Deployment

Compact, plug-and-play form factor design that supports DIN rail mounting to allow for flexible and swift deployment

Flexible Availability

4 and 8 1GBASE-T port options are available for varying network deployments, in addition to 2 SFP uplink ports on both models for long distance connections

DIS-100G-6S and DIS-100G-10S

Gigabit Industrial Unmanaged Switches

Features

Adaptable Application

- SFP ports for long distance connections
- Plug-and-play installation

Robust and High-Redundancy Design

- Fanless, passive cooling design
- Industrial grade operating temperature (-20 ~ 65 °C)
- High EMS endurance
- Durable IP40-rated housing
- Dual power input for redundant power supplies
- Built-in 6 kV surge protection on copper ports
- Overload current protection

Advanced Features

- 9.6 KB Jumbo Frame
- IEEE 802.3x Flow Control
- IEEE 802.1q Quality of Service (QoS) with 8 hardware queues per port
- IEEE802.3az Energy Efficient Ethernet

The DIS-100G-6S and DIS-100G-10S Gigabit Industrial Unmanaged Switches are equipped with a variety of port combinations including 10/100/1000BASE-T ports and SFP ports. These switches feature a robust design making them ideal for deployment in industrial and outdoor cabinet surveillance settings and capable of withstanding the harshest environments. In addition, the DIS-100G-6S and DIS-100G-10S are plug-and-play, allowing for effortless and swift deployment.

Durable, Reliable, and Efficient

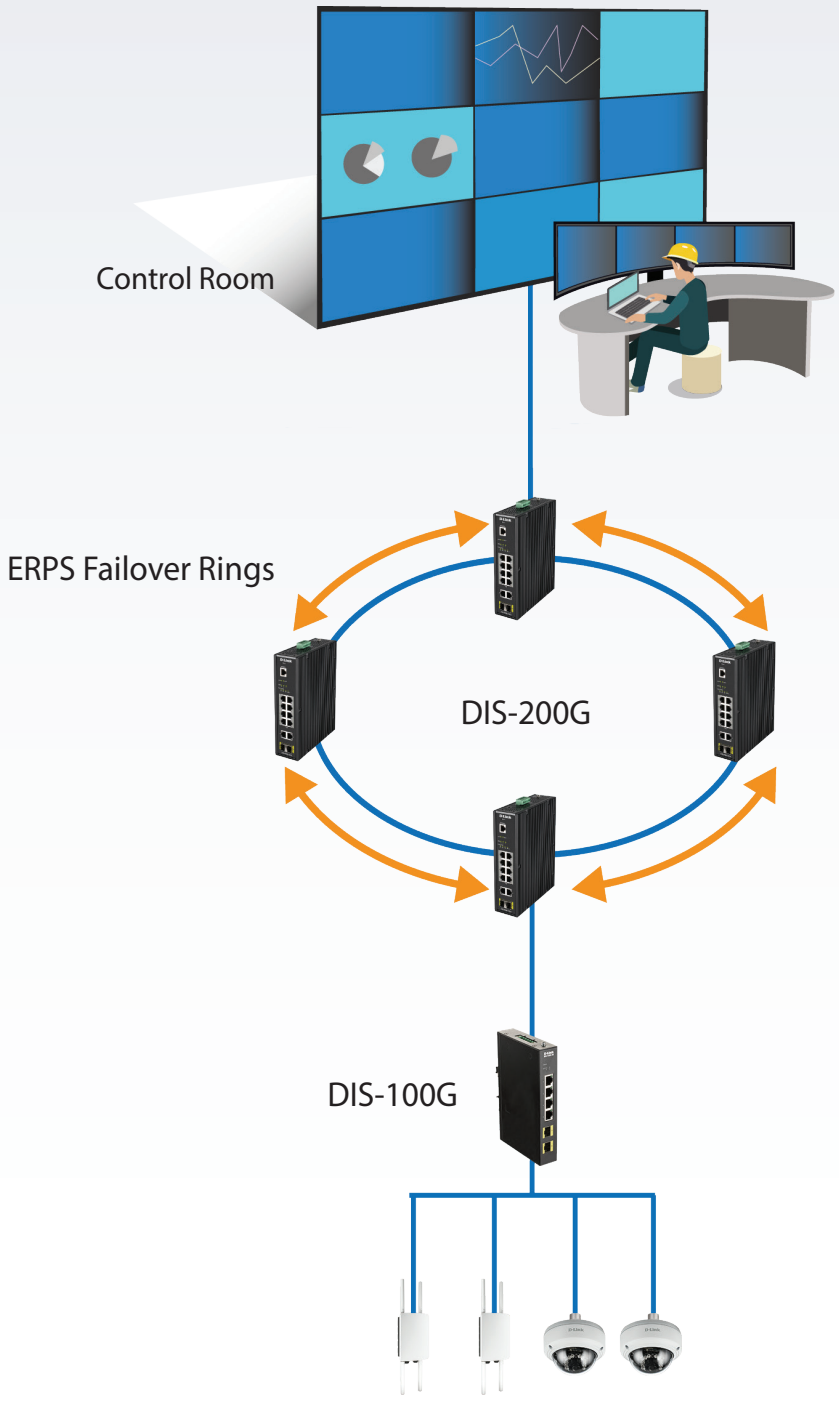
The DIS-100G-6S and DIS-100G-10S switches are housed in a highly resistant IP40-rated metal casing to protect the switches from harsh environmental conditions. High electromagnetic susceptibility (EMS) protects the DIS-100G-6S and DIS-100G-10S from undesirable effects when operating in environments with strong electromagnetic interference. Meanwhile, the fanless design extends the life of the DIS-100G-6S and DIS-100G-10S while also enabling them to operate in a wide temperature range from -20 °C up to 65 °C. With DIN rail mounting capability, the DIS-100G-6S and DIS-100G-10S can fit seamlessly into your industrial equipment infastructure. In addition, the DIS-100G-6S and DIS-100G-10S supports dual power input, which allows for a redundant power supply configuration to make sure the switches continue to operate in the event of a primary power supply failure.

Meanwhile, a powerful IEEE 802.1p Quality of Service (QoS) engine prioritizes network traffic so that high-priority data is delivered effectively and efficiently, even during bursts of high network traffic. This helps ensure an optimal experience for streaming critical data such as surveillance and recognition systems.

Green Ethernet Technology

The DIS-100G-6S and DIS-100G-10S features green technology; IEEE 802.3az Energy-Efficient Ethernet (EEE). Energy-Efficient Ethernet reduces the power consumption of the switches when network utilization is low, effectively lowering the cost of ownership during periods of inactivity.

Deployment Scenario



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DIS-100G-6S and DIS-100G-10S
Gigabit Industrial Unmanaged Switches

Technical Specifications

General	DIS-100G-6S	DIS-100G-10S
Hardware Version	• A2	
Number of Ports	• 4 x 10/100/1000BASE-T ports • 2 x SFP port	• 8 x 10/100/1000BASE-T ports • 2 x SFP 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 802.3x Flow Control • IEEE 802.3az Energy-Efficient Ethernet (EEE)	
Media Interface Exchange	• Auto-MDI/MDIX adjustment for all twisted pair ports	
Performance		
Switching Capacity	• 12 Gbps	• 20 Gbps
Maximum Forwarding Rate	• 8.928 Mpps	• 14.88 Mpps
MAC Address Table Size	• Up to 4K entries	
Transmission Method	• Store-and-forward	
Jumbo Frame	• 9.6 KB	
Advanced Features	• IEEE 802.1p Quality of Service (QoS) - 8 hardware queues per port	
Physical		
Diagnostic LEDs	• PWR • SFP • Link/Activity	
Power Input	• 12 to 48 VDC terminal block dual input	
Power Consumption	• Maximum: 4.89 W • Standby: 1.48 W	• Maximum: 7.61 W • Standby: 2.08 W
Alarm Relay	• 1 A at 24 V	
Heat Dissipation	• 16.68 BTU/hr	• 25.97 BTU/hr
Weight	• 0.4596 kg (1.0132 lbs)	• 0.5666 kg (1.2491 lbs)
Dimensions	• 162 x 102 x 28 mm (6.38 x 4.02 x 1.10 in)	• 190 x 100 x 28 mm (7.48 x 3.94 x 1.10 in)
Ventilation	• Fanless, passive cooling	
Operating Temperature	• -20 to 65 °C (-4 to 149 °F)	
Storage Temperature	• -40 to 85 °C (-40 to 185 °F)	
Operating Humidity	• 5% to 95% RH, non-condensing	
Storage Humidity	• 5% to 95% RH, non-condensing	
Material	• IP40-rated metal casing	
Installation	• DIN rail	

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MTBF	• 794,683 hrs	• 490,031 hrs
Certifications	• CE • FCC	
EMI	• 47 CFR FCC Part 15 Subpart B (Class A) • ICES-003 Issue 6 (Class A)	
EMS	• EN 61000-4-2 ESD • EN 61000-4-3 RS • EN 61000-4-4 EFT • EN 61000-4-5 Surge • 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	

Order Information

Part Number	*Description*
DIS-100G-6S	4 x 10/100/1000 Mbps ports + 2 x SFP port switch, -20 to 65 °C operating temperature
DIS-100G-10S	8 x 10/100/1000 Mbps ports + 2 x SFP port switch, -20 to 65 °C operating temperature

Optional SFP Transceivers

DIS-S310LX	1000BASE-LX, single-mode, 10 km, -40 to 85 °C operating temperature
DIS-S301SX	1000BASE-SX, multi-mode, 550 m, -40 to 85 °C operating temperature
DIS-S302SX	1000BASE-SX, multi-mode, 2 km, -40 to 85 °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

Updated 2022/06/09

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