D-Link
Building Networks for People

Product Highlights

Robust Design

High EMC endurance, fanless design, and a wide operating temperature range combined with an IP30 housing to withstand harsh operating environments

Flexible Deployment

Plug and play compact form-factor design that supports multiple mounting options to allow for flexible and swift deployment

Extended Connectivity

5 to 8 Fast Ethernet ports provide a rock-solid cost/performance proposition for extending wired connectivity for a variety of applications

DIS-100E Series

Fast Ethernet Industrial Unmanaged Switches

Features

Flexible Availability

- Plug and play installation
- Compact form-factor design

Robust and High-Redundancy Design

- Fanless, passive cooling design
- Wide operating temperature (-40 ~ 75 °C)
- High EMC endurance
- Durable IP30-rated housing
- Dual power input for redundant power supplies

Industry-Standard Certified

- Shock - IEC 60068-2-27
- Freefall - IEC 60068-2-32
- Vibration - IEC 60068-2-6
- UL/CE/FCC

Advanced Features

- Multicast/Unicast/Storm Control
- IEEE 802.3x Flow Control
- IEEE 802.1q Quality of Service (QoS) with 2 hardware queues per port

The DIS-100E Series Fast Ethernet Industrial Unmanaged Switches are available in 5 or 8 10/100BASE-T port models. These switches feature a robust design making them ideal for deployment in industrial and outdoor cabinet surveillance settings, capable of withstanding the harshest environments. In addition, the DIS-100E Series are plug and play, allowing for effortless and swift deployment.

Durable, Reliable, and Efficient

The DIS-100E Series switches are housed in a highly resistant IP30-rated metal casing to protect the switches from harsh environmental conditions. The high electromagnetic compatibility (EMC) protects the DIS-100E Series from unwanted effects when operating in environments with strong electromagnetic interference. Meanwhile, the fanless design extends the life of the DIS-100E Series while also being able to operate in a wide temperature range from -40 °C up to 75 °C. For increased flexibility, the DIS-100E Series can also be mounted on a DIN rail or conveniently mounted on a solid surface wall. In addition, the DIS-100E Series 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 time-sensitive data is delivered efficiently, even during bursts of high data traffic. This helps ensure an optimal experience for streaming critical data such as from surveillance and recognition systems.

Fast Ethernet Connectivity

For most industrial applications, a high transmission data rate and bandwidth are not critical requirements. Fast Ethernet offers the ideal balance between cost and performance, delivering the necessary speed and bandwidth to meet the demand to connect more devices, while maintaining a lower total cost of ownership.

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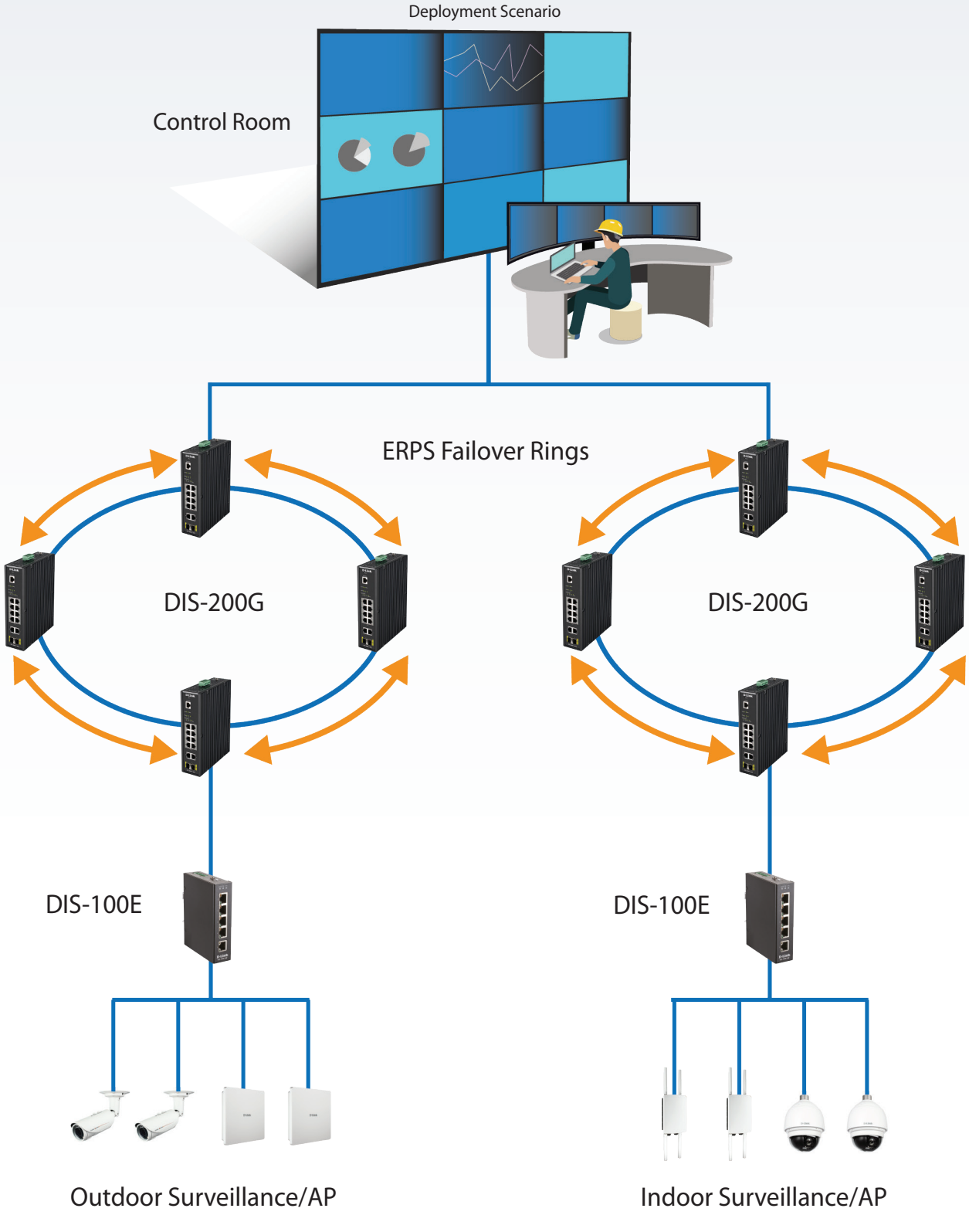
Green Ethernet Technology

The DIS-100E Series features green technology, including IEEE 802.3az Energy-Efficient Ethernet (EEE), link status detection, and cable length detection. 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. Link status detection automatically powers down ports when there is no link detected, saving power when the connected device has been shut down or disconnected. Cable length detection automatically adjusts the power output of the port based on the length of the cable, reducing the power requirements of the switch to only what is necessary for the installation.

Deployment Scenario



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DIS-100E Series
Fast Ethernet Industrial Unmanaged Switches

Technical Specifications

General	DIS-100E-5W	DIS-100E-8W
Hardware Version	• A1	• A1
Number of Ports	• 5 x 10/100BASE-T ports	• 8 x 10/100BASE-T ports
Port Functions	• IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • 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	• 1 Gbps	• 1.6 Gbps
Maximum Forwarding Rate	• 0.744 Mpps	• 1.19 Mpps
MAC Address Table Size	• Up to 1K entries	
Transmission Method	• Store-and-forward	
Advanced Features	• Broadcast/Multicast/Unicast Storm Control • IEEE 802.1p Quality of Service (QoS) - 2 hardware queues per port	
Physical		
Diagnostic LEDs	• ALM • P1/P2 • Link/Activity/Speed	• ALM • P1/P2 • Link/Activity/Speed
Power Input	• 12 to 58 V DC terminal block dual input	• 12 to 58 V DC terminal block dual input
Power Consumptions	• Maximum: 1.56 W • Minimum: 0.95 W	• Maximum: 1.64 W • Minimum: 1.41 W
Alarm Relay	• 1 A at 48 V/DC	
Heat Dissipation	• 5.323 BTU/hr	• 5.596 BTU/hr
Weight	• 0.32 kg (0.71 lbs)	• 0.405 kg (0.89 lbs)
Dimensions	• 109.2 x 29.1 x 89.4 mm (4.30 x 1.15 x 3.52 in)	• 117.8 x 39 x 96.9 mm (4.64 x 1.54 x 3.80 in)
Ventilation	• Fanless, passive cooling	
Operating Temperature	• -40 to 75 °C (-40 to 167 °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	• IP30-rated metal casing	
Installation	• DIN rail/wall-mountable	
MTBF	• >25 years	
Certifications	• UL/CE/FCC	
Safety	• UL60950-1	
EMI	• 47 CFR FCC Part 15 Subpart B (Class A) • ICES-003 Issue 6 (Class A)	
EMC	• EN61000-6-2 • EN61000-6-4	

EMS	• EN 61000-4-2 ESD Level 3 • EN 61000-4-3 RS Level 3 • EN 61000-4-4 EFT Level 3 • EN 61000-4-5 Surge Level 3 • EN 61000-4-6 CS Level 3 • EN 61000-4-8
Environmental Tests	• IEC 60068-2-27 Shock • IEC 60068-2-32 Freefall • IEC 60068-2-6 Vibration

DIS-100E Series
Fast Ethernet Industrial Unmanaged Switches

Order Information	
Part Number	*Description*
DIS-100E-5W	5 x 10/100 Mbps ports switch with -40 to 75 °C operating range
DIS-100E-8W	8 x 10/100 Mbps ports switch with -40 to 75 °C operating range
Optional Accessories	
DPE-SP110	Outdoor PoE Ethernet Surge Protector
DPE-SP110I	Ethernet Surge Protector

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