D-Link
Building Networks for People

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

Easily Installation

Simple plug & play installation with DIN-rail mounting ability.

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-100G Series

Industrial Gigabit Unmanaged 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

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-100G Series Industrial Gigabit Unmanaged 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. DIS-100G Unmanaged Switches provides 5 Gigabit Ethernet ports and are designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play.

The DIS-100G-5PSW is 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.

Customers

The DIS-100G Series family of switches is ideal for customers looking for a entry-level Ethernet switch for industrial environments. These unmanaged switches offer plug & play installation, ideal for network edge deployment.

Application

- Challenging environmental conditions
- High ambient temperatures

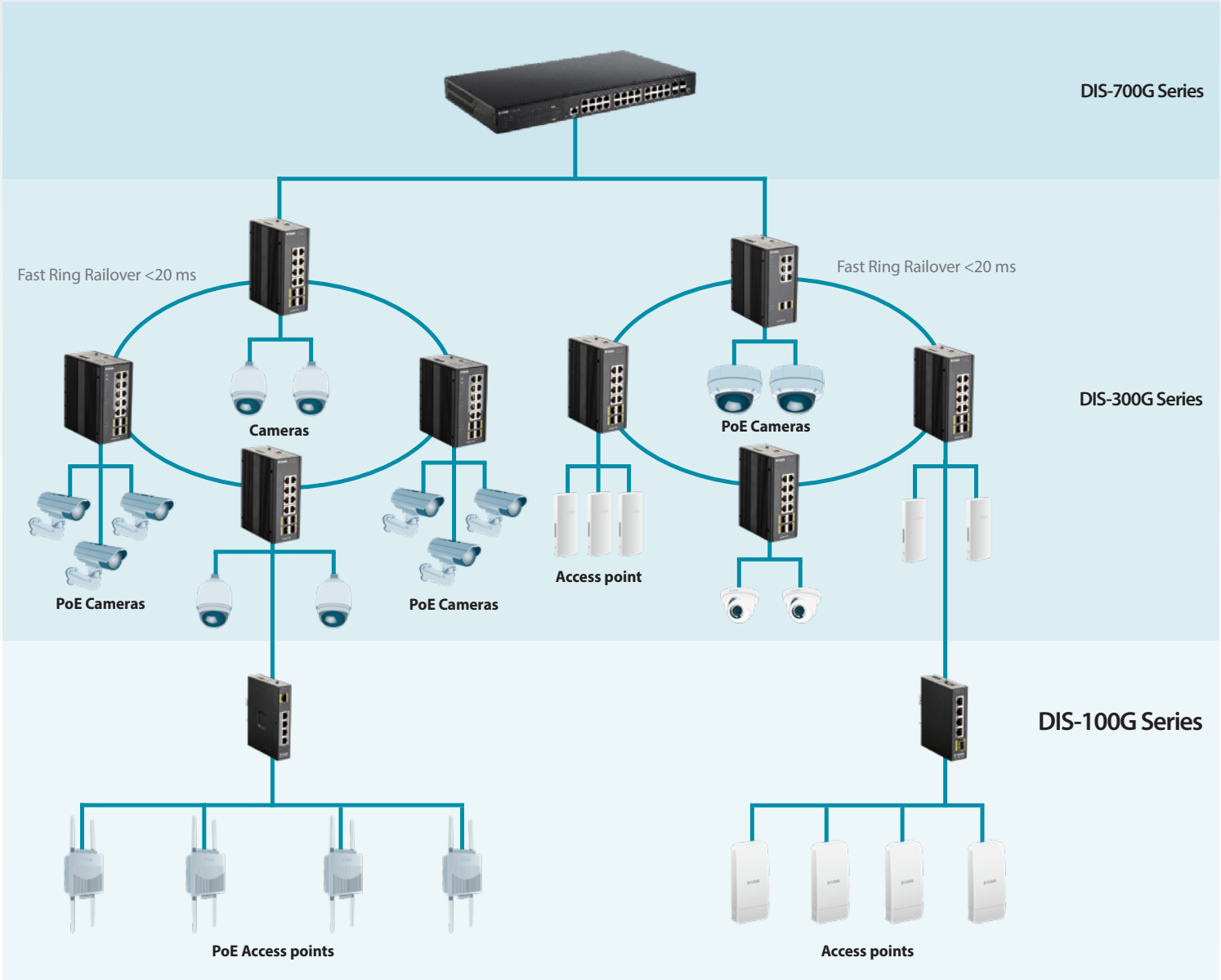
Market

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

D-Link
Building Networks for People

DIS-100G Series Industrial Gigabit Unmanaged Switches

Deployment Scenario



D-Link
Building Networks for People

DIS-100G Series Industrial Gigabit Unmanaged Switches

Technical Specifications	DIS-100G-5W	DIS-100G-5SW	DIS-100G-5PSW
Ethernet			
Ethernet Interfaces	5 x 100/1000BaseT ports	4 x 100/1000BaseT ports 1 x 100/1000BaseSFP slots	4 x 100/1000BaseT PoE ports 1 x 100/1000BaseSFP slots
Operating Mode	Store and forward, L2 wire-speed/non-blocking switching engine		
MAC Addresses	2K		
Jumbo Frames	9K Bytes		
Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)		
QoS	IEEE 802.1p, 4 queues per port		
Traffic Shaper	Port-based Port shaping		
Storm Control	Multicast/Broadcast/Flooding Storm Control per system basis enable/disable		
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
PoE Power Budget			120 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	
Power			
Power Input	Redundant Input Terminals Reverse power protection		
Input Voltage Range	12-58 VDC	12-58 VDC	12-58 VDC 54-58V for PoE+, 48-58V for PoE
Power Consumption	3.5W @ 12VDC, 3.57W @ 48VDC	2.74W @ 12VDC, 3.57W @ 48VDC	Maximum 120.2W
Compatible Power Supplies	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48
Indicators			
Power Status	Indication of power input status		
Ethernet Port	Link & Speed		
PoE Power			PoE power status indication
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 60950-1 (compliance), CE, FCC		UL 61010-1, UL C1D2, CE, FCC
EMC	FCC Part 15, EN 61000-6-2, EN 61000-6-4, EN 61000-4-2, -3, -4, -5, -6 (Level 3)		
RoHS & WEEE	RoHS (Pb free) and WEEE compliant		
MTBF	> 25 years		

D-Link®
Building Networks for People

DIS-100G Series Industrial Gigabit Unmanaged Switches

Technical Specifications	DIS-100G-5W	DIS-100G-5SW	DIS-100G-5PSW
Mechanical			
Ingress Protection	IP30		
Dimensions	112.2 x 29.1 x 89.4 mm	112.2 x 29.1 x 89.4 mm	139 x 29 x 107 mm
Weight	0.295 kg	0.295 kg	0.375 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

Updated October 2017

D-Link®
Building Networks for People