molex

Power-over-Ethernet (PoE) Industrial Ethernet Switches ❯

IP20-rated Power-over-Ethernet (PoE) Industrial Ethernet Switches help simplify network design for cameras and other industrial monitoring applications by providing versatile network and power capabilities in a single cable.

ADVANTAGES AND FEATURES

Enables use with voltage as low as 24V DC for greater availability
by using the Power Booster system, which supports networks without the 48V DC power that is necessary for most PoE systems

Provides high power for distributed PoE network devices
with up to 30W per port available for PoE+ compliant devices, enabling a network of devices to be powered without installing dedicated power outlets

Simplifies networking for camera and monitoring systems
by combining power and data transmission into a single easy-to-use, plug-and-play switch

NEMA Ratings	IP20
Data Speeds	10/100/1,000 Mbps
Ports	5, 8
Input Voltage	24 to 57V DC
Power Consumption	13 to 18W
PoE Power Budget	120 to 240W
Operating Temperature	-10 to +60°C

Delivers reliable performance in challenging conditions
due to a rugged IP30-rated metal case that withstands operating temperatures from -10 to +60°C and features surge protection for network devices
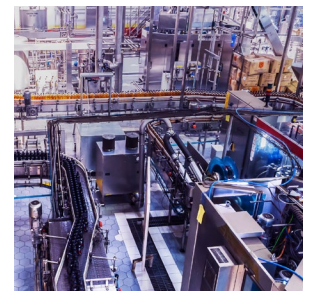
MARKETS AND APPLICATIONS

Industrial Automation
Automotive production lines
Semiconductors
Material handling systems
Waste and wastewater treatment plants
Pulp and paper manufacturing equipment
Food and beverage lines
Mining and metals sites
Agricultural systems
Machine builders
Robot cell control systems
Packaging line control systems
Substation control devices

Automotive Production Lines

Robot Cell Control Systems

Food and Beverage Lines

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SPECIFICATIONS

Reference Information

Packaging: Box

Designed in: Millimeters

RoHS: Yes

Halogen Free: Yes

IEEE Standards: 802.3 (10Base-T), 802.3u (100Base-TX), 802.3ab (1,000Base-T), 802.3x (Flow Control), 802.3az (energy efficiency), 802.1p (QoS)

CE:

EMI – FCC Part-15 Subpart B Class A, EN55022 (Class A), EN55011 (2009 Class A), EN 61000-6-4

EMS – EN55024, EN61000-6-2, EN61000-4-2 (ESD: Level 3), EN61000-4-3 (RS: Level 3), EN61000-4-4 (Burst: Level 3), EN61000-4-5 (Surge: Level 3), EN61000-4-6 (CS: Level 3), DRL250MG: EN61000-4-8 and EN61000-4-11

Approval and Test:

Shock – IEC 60068-2-27

Freefall – IEC 60068-2-32

Vibration – IEC 60068-2-6

UL, cUL and CSA ID – ES00772

Electrical

Input Voltage: 24 to 57V DC

Connection: Terminal block

Power Input Polarity Protection: Yes

Power Consumption: 13W (5-port) or 18W (8-port)

PoE Power Budget: 120W (5-port) or 240W (8-port)

Surge Protection: Yes

Electrostatic Discharge (ESD) Protection: Yes (8/15kV)

Overload Current: Yes

Mechanical

Housing: Metal case (IP30 protection)

Mounting: DIN rail, wall mount

Physical

Weight: 750g (5-port) or 920g (8-port)

Dimensions:

5-Port: 50.00 by 120.00 by 160.00mm

8-Port: 50.00 by 119.90 by 161.50mm

Ports: 10/100/1000Base-T (RJ45)

LED Panel: PWR, PoE, 1000, LNK/ACT

Switch Fabric: 10 Gbps

Mac Table Size: 8K

Jumbo Frame Size: 10k

Operating Humidity: 10 to 95% RH (non-condensing)

Storage Humidity: 5 to 95% RH (non-condensing)

Operating Temperatures: -10 to +60°C

Storage Temperatures: -40 to +85°C

Additional details and specifications are available on molex.com

ORDERING INFORMATION

Order No.	Old Engineering No.	Component	Data Speeds (Mbps)	Ports	NEMA Rating
112036-1010	DRL-251MG	Unmanaged PoE Industrial Ethernet Switch, 5 x RJ45	10/100/1,000	5	IP20
112036-1011	DRL-281MG	Unmanaged PoE Industrial Ethernet Switch, 8 x RJ45	10/100/1,000	8	IP20

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