Direct-Link™ Industrial Ethernet switches intelligently route Ethernet messages, eliminating collisions and providing deterministic performance.

Industrial Ethernet Switch

Series 200 - Unmanaged

Features

- **5-, 8- and 9-port unmanaged switches**
- **Plug and Play - no setup required**
- **Auto-sensing, auto-polarity and auto-crossover**
- **DIN rail or panel mount**
- **Redundant, dual DC power inputs**

Overview

Ethernet switches allow all devices to transmit simultaneously, without collision. This is essential for enabling deterministic delivery of time-critical information. Switches are intelligent devices, keeping track of device locations; this allows messages to be transmitted only from the necessary port, improving the overall performance of the network.
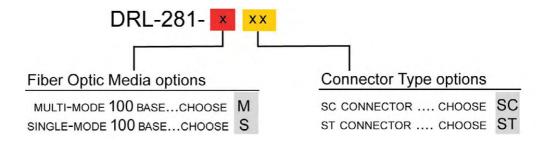
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Technical Information

Ethernet protocols supported	IEEE 802.3 protocols	**Input power**	Typical-all ports active at 100 Mbps 3.6W to 6.3W (refer to user's manual)
RJ45 ports (shielded)	10 BaseT / 100 BaseTX	**Input voltage**	10 – 30 V
RJ45 speed (10 or 100 Mbps)	Auto-negotiation	**Ethernet isolation**	1500 VRMS 1 minute
RJ45 MDI / MDIX and TD/RD	Auto-crossover & auto-polarity	**Operating temperature**	0ºC to 60ºC (32ºF to 140ºF)
Fiber optic port wavelength	1300 nm center	**Storage temperature**	-40ºC to 85ºC (-40ºF to 185ºF)
Fiber optic multi-mode (mm) optimal	62.5/125 µm (SC or ST connector)	**Humidity (non-condensing)**	5 to 95% RH
Fiber maximum distance (full duplex)	4 km (mm)	**Vibration**	IEC68-2-6
Fiber optic single-mode (sm) Optimal	9/125 µm (SC or ST connector)	**Electrical safety**	EN61010-1 (IEC61010)
Fiber maximum distance (full duplex)	20 km (sm)	**EMI emissions**	FCC part 15, ICES 003, EN55011 ; Class A
Typical latency for 100 Mbps ports	5 µs + frame time (varies on load)	**EMC immunity**	EN61326
Full or half duplex operation	RJ45: full / half duplex Fiber: full duplex	**UL approval**	ML file: E205563
		Packaging	IP30 protection
MAC addresses supported	1024 (5 port) / 2048 (8 port)	**Dimensions**	Height: 142.24mm (5.60") Depth: 102.36mm (4.03") Width: 5-port: 27.18mm (1.07") 8- or 9-port: 38.74mm (1.525")
Mounting	DIN rail or panel mount		

Ordering Information

Part Number	Product Description
DRL-241-xxx	Industrial 5-port Ethernet switch, unmanaged, 4 RJ45, 1 fiber
DRL-250	Industrial 5-port Ethernet switch, unmanaged, 5 RJ45
DRL-280	Industrial 8-port Ethernet switch, unmanaged, 8 RJ45
DRL-281-xxx	Industrial 9-port Ethernet switch, unmanaged, 8 RJ45, 1 fiber
DRL-290	Industrial 9-port Ethernet switch, unmanaged, 9 RJ45

Complete part numbers ending with xxx as follows using DRL-281 as an example:

DRL-281- X XX

Fiber Optic Media options

MULTI-MODE 100 BASE…CHOOSE **M**
SINGLE-MODE 100 BASE…CHOOSE **S**

Connector Type options

SC CONNECTOR …. CHOOSE **SC**
ST CONNECTOR …. CHOOSE **ST**

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Ethernet Switches