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	**Transient protection**	15,000 watts peak
RJ45 ports (shielded)	10 BaseT / 100 BaseTX	**Spike protection**	5,000 watts (10 times for 10 uS)
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**	-10ºC to 60ºC (14ºF to 140ºF)
Fiber optic port wavelength	1300 nm center	**Storage temperature**	-40ºC to 85ºC (-40ºF to 185ºF)
Fiber optic multi-mode (mm) optimal	9/125 um (SC or ST connector)	**Humidity (non-condensing)**	5 to 95% RH, non-condensing
Fiber maximum distance (full duplex)	4 km (mm), 20 or 40 km (sm) or more	**Vibration**	IEC68-2-6
Typical latency for 100 Mbps ports	5 us + frame time (varies on load)	**Electrical safety**	UL508/CSA C22, EN61010-1
Full or half duplex operation	RJ45: full / half duplex Fiber: full duplex	**EMI emissions**	FCC part 15, ICES-003, EN55022
MAC addresses supported	1024 (5 port) / 2048 (8 port)	**EMC immunity**	IEC61326-1, IEEE C37.90
Memory bandwidth	3.2 Gbps	**Hazardous locations**	UL1604, CSA C22.2/213 (Class 1, Div.2) Cenelec EN50021 (Zone 2)
Mounting	DIN rail or panel mount	**Eye safety (fiber models)**	IEC60825-1, Class 1 FDA 21 CFR 1040.10 and 1040.11
Input power	Typical all ports active at 100 Mbps 3.6W to 6.3W (refer to user's manual)	**Packaging**	IP30 protection
Input voltage	10 – 30 V		

Ordering Information

Part Number	Product Description
DRL-241-xxx	Industrial 5-port Ethernet switch, unmanged, 4 RJ45, 1 fiber
DRL-250	Industrial 5-port Ethernet switch, unmanged, 5 RJ45
DRL-280	Industrial 8-port Ethernet switch, unmanged, 8 RJ45
DRL-281-xxx	Industrial 9-port Ethernet switch, unmanged, 8 RJ45, 1 fiber
DRL-290	Industrial 9-port Ethernet switch, unmanged,9 RJ45
DRL-001	SC to ST fiber adapter connector

Complete part numbers ending with xxx as follows :

Using as an example: **DRL-332- X X X**

For X: select the fiber optic media:
For multi-mode 100 Base, choose . . . . .**M**
For single-mode 100 Base, choose . . . .**S**

For XX: select the type of connector:
For SC connector; choose . . . . **SC**
For ST connector; choose . . . .**ST**

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Ethernet Switches