



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

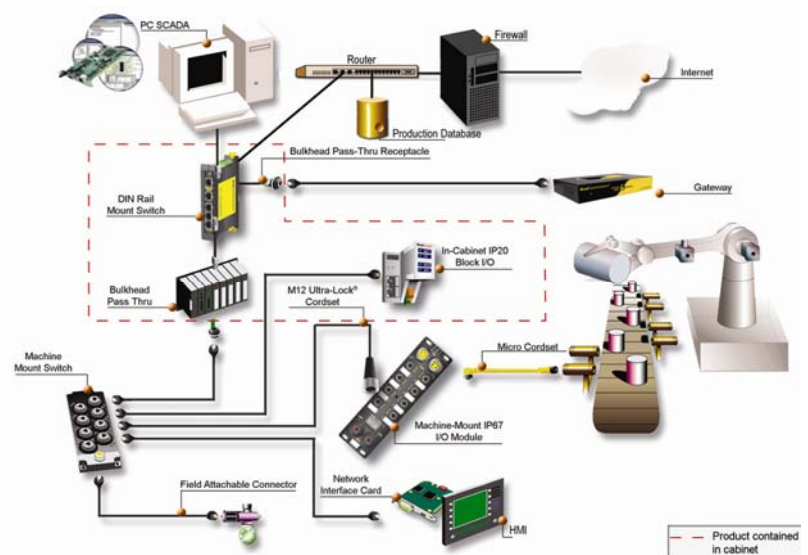


### Overview

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.

Ask about the complete line of BradCommunications™ Industrial Ethernet Switches

- IP67 unmanaged switches for machine-mount applications
- IP30 managed and unmanaged switches for in-cabinet applications
- SNMP Management Suite for real-time analysis and network performance management



--- Product contained in cabinet

# Industrial Ethernet Switch



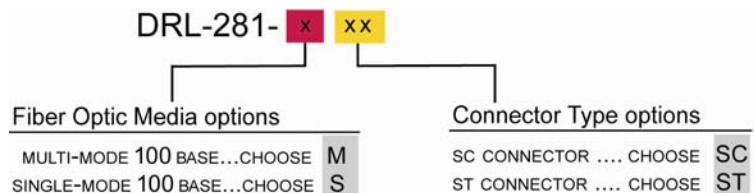
## Technical Information

<b>Ethernet protocols supported</b>	IEEE 802.3 protocols	<b>Input power</b>	Typical-all ports active at 100 Mbps 3.6W to 6.3W (refer to user's manual)
<b>RJ45 ports (shielded)</b>	10 BaseT / 100 BaseTX	<b>Input voltage</b>	10 – 30 V
<b>RJ45 speed (10 or 100 Mbps)</b>	Auto-negotiation	<b>Ethernet isolation</b>	1500 VRMS 1 minute
<b>RJ45 MDI / MDIX and TD/RD</b>	Auto-crossover & auto-polarity	<b>Operating temperature</b>	-10°C to 60°C (14°F to 140°F)
<b>Fiber optic port wavelength</b>	1300 nm center	<b>Storage temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Fiber optic multi-mode (mm) optimal</b>	62.5/125 µm (SC or ST connector)	<b>Humidity (non-condensing)</b>	5 to 95% RH
<b>Fiber maximum distance (full duplex)</b>	4 km (mm)	<b>Vibration</b>	IEC68-2-6
<b>Fiber optic single-mode (sm) Optimal</b>	9/125 µm (SC or ST connector)	<b>Electrical safety</b>	EN61010-1 (IEC61010)
<b>Fiber maximum distance (full duplex)</b>	20 km (sm)	<b>EMI emissions</b>	FCC part 15, ICES 003, EN55011 ; Class A
<b>Typical latency for 100 Mbps ports</b>	5 µs + frame time (varies on load)	<b>EMC immunity</b>	EN61326
<b>Full or half duplex operation</b>	RJ45: full / half duplex Fiber: full duplex	<b>UL approval</b>	UL 508 (E205563) UL 1604 (E314891) - Class 1, Div 2 - Groups A, B, C & D Hazardous Locations
<b>MAC addresses supported</b>	1024 (5 port) / 2048 (8 port)	<b>Dimensions</b>	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")
<b>Mounting</b>	DIN rail or panel mount		
<b>Packaging</b>	IP30 protection		

## Ordering Information

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

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



To contact us: [www.woodhead.com](http://www.woodhead.com)

Reference Number: DW2006179 Date Published: July 2007

**North America:** US: +1 800 225 7724 – Canada: +1 519 725 5136

**Europe:** France: +33 2 32 96 04 20 – Germany: +49 7252 94 96 0 – Italy: +39 010 59 30 77 –

United Kingdom: +44 1495 356300

**Asia:** Shanghai, China: +86 21-5835-9885 - Tianjin, China: +86 22-23321717

Singapore: +65 6268-6868 – Yamato, Japan: +81 46-265-2428 – Nagoya, Japan: +81 52-221-5950

BradCommunications and Direct-Link are trademarks of Woodhead Industries.  
© 2007 Woodhead Industries, a division of Molex Incorporated.