



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

Industrial Ethernet Switch

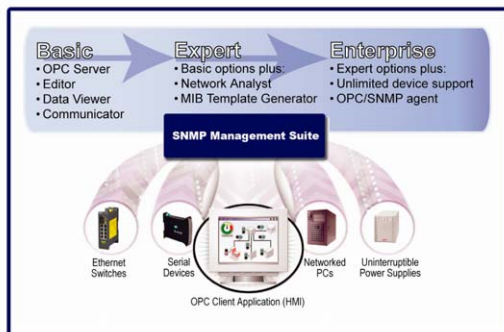
Series 300 - Managed

Features

- 5- and 8-port managed switches
- DIN rail or panel mount
- Redundant, dual DC power inputs
- Support for up to 2048 MAC addresses
- SNMP agent v1 and v2
- Message filtering to stop multicast storms (IGMP snooping)
- VLAN (port & tag based) for traffic segregation
- Rapid Spanning Tree Protocol (RSTP) for fault-tolerant loops
- Priority queuing for real-time performance
- RMON and port mirroring for diagnostics
- Configuration via secure (https) web interface, Telnet / SSH (network), terminal (RS232) or SNMP (v1, v2, v3)

SNMP Management Suite

- Real-time analysis and network performance management
- Accessibility and monitoring of power supplies, PLCs and unmanaged devices
- Network view and control from your HMI interface



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 performance of the network.

Direct-Link™ Industrial Ethernet managed switches are available with many features to suit your specific requirements. Managed switches are equipped with IGMP snooping, VLAN and QoS for prioritization and provide the ideal platform for your Industrial Ethernet network. Redundant ring network technology, advanced network management, easy configuration and robust mechanical formats are all supported.

SNMP Management Suite

Comprehensive Network Data Available

Direct-Link Industrial Ethernet managed switches generate comprehensive SNMP messages that provide information on switch performance, configuration and alarm status. The Direct-Link SNMP Management Suite enables users to access SNMP messages from the managed switches and other SNMP capable devices including power supplies and PLCs. This provides system-wide monitoring and trouble-shooting of network performance.

Easy Integration with Existing HMI Tools

Raw SNMP network data is difficult to interpret and users may not have the necessary software tools. Direct-Link SNMP Management Suite converts SNMP messages into OPC tags that are easily incorporated into, and portrayed by HMI OPC client software (e.g. Wonderware® InTouch®, ICONICS GENESIS®, Rockwell Automation® RSVIEW®, GE Fanuc iFIX® and CIMPLICITY®, and Siemens WinCC® HMI).

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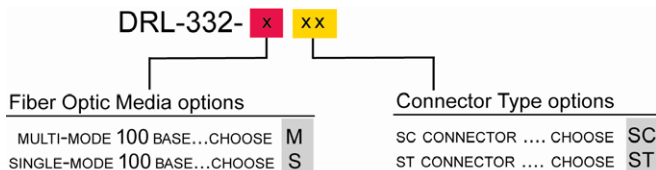
Technical Information

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		
RJ45 speed (10 or 100 Mbps)	Auto-negotiation	Input voltage	10 – 30 V
RJ45 MDI / MDIX and TD/RD	Auto-crossover & auto-polarity	Ethernet isolation	1500 VRMS 1 minute
Fiber optic port wavelength	1300 nm center	Operating temperature	-10°C to 60°C (14°F to 140°F)
Fiber optic multi-mode (mm) optimal	62.5/125 µm (SC or ST connector)	Storage temperature	-40°C to 85°C (-40°F to 185°F)
Fiber maximum distance (full duplex)	4 km (mm)	Humidity (non-condensing)	5 to 95% RH
Fiber optic single-mode (sm) Optimal	9/125 µm (SC or ST connector)	Vibration	IEC68-2-6
Fiber maximum distance (full duplex)	20 km (sm)	Electrical safety	EN61010-1 (IEC61010)
Typical latency for 10 Mbps ports	16 µs + frame time (varies on load & settings)	EMI emissions	FCC part 15, ICES 003, EN55011 ; Class A
Typical latency for 100 Mbps ports	5 µs + frame time (varies on load & settings)	EMC immunity	EN61326
Full or half duplex operation	RJ45: full / half duplex Fiber: full duplex	UL approval	UL 508 (E205563) UL 1604 (E314891) - Class 1, Div 2 - Groups A, B, C & D Hazardous Locations
MAC addresses supported	2048		
“OK” output	Power & operational status	Dimensions	Height: 142.24mm (5.60") Depth: 102.36mm (4.03") Width: 5-port: 27.18mm (1.07") 8-port: 38.74mm (1.525")
Voltage	Same as switch input voltage		
Maximum current output	0.5 Amp		
Mounting	DIN rail or panel mount	Packaging	IP30 protection

Ordering Information

Part Number	Product Description
DRL-002	DB9 to RJ45 connector (configuration port)
DRL-332-xxx	Industrial 5-port Web managed Ethernet switch, managed, 3 RJ45, 2 fiber
DRL-350	Industrial 5-port Ethernet switch, managed, 5 RJ45, redundant power supply
DRL-362-xxx	Industrial 8-port Web managed Ethernet switch, managed, 6 RJ45, 2 fiber
DRL-380	Industrial 8-port Ethernet switch, managed, 8 RJ45
DRL-EDS-OPC-BSC	SNMP data server, basis, OPC version 2.0, up to 50 devices
DRL-EDS-OPC-EXP	SNMP data server, expert, OPC version 2.0, up to 50 devices, with network analyst and template generator
DRL-EDS-OPC-ENT	SNMP data server, enterprise, OPC version 2.0, unlimited devices, with network agent

Complete part numbers ending with **xxx** as follows using DRL-332 as an example:



Ethernet Switches

Brad[®]
from **molex**

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