Industrial Managed Gigabit Switch — DR4010P8C2F

Product   Description:

Devray DR4010P8C2F Industrial Switch is a Layer 2+ managed Gigabit Switch that features 8-Port Gigabit RJ45 + 2-Port Gigabit SFP optical port, is specially designed to build a full Gigabit backbone to transmit reliable and high-speed data in heavy industrial demanding environment sand forward data to remote network through fiber optic cabling. It comes with an IP40 rugged case. The industrial managed switch provides user-friendly but advanced IPv6/IPv4 management interfaces. It is the best investmentfor expanding industrial business or upgrading its network infrastructure.

Feature:

◆ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation,IGMP Snooping, DHCP Snooping, LLDP, IP Source Guard, ARP inspection, ACLs etc.

◆ Support spanning tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s)

◆ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.

◆ Support cable diagnosis

◆ Dual firmware backup

◆ Support G.8032 quick ring protocol. Self-recovery time <20ms

◆ Support IEEE1588 v2, transparent clock(TC)

◆ Support DDM, SFP digital diagnostics monitoring

◆ Support IPV4 and IPV6 static routing functions

◆ Support memory and CPU monitoring

◆ 6KV surge protection, 6KV contact/8KV air ESD protection

Hardware   Specification:

Model	DR4010P8C2F
Copper Ports	8-10/100/1000BASE-T RJ45 auto-sensing ports
Fiber Ports	2-100/1000BASE-T SFP interfaces, supports 100/1000Mbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	20Gbps/non-blocking
Throughput	14.88Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.1 Mb
Jumbo Frame	9216 Bytes
SDRAM	1Gb
Flash Memory	128Mb
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Reset Button	>2 sec.: Factory default and reset
Power Supply	12~48 VDC, 50/60Hz,Dual DC
LED Indicators	Power: Green Solid on--power work normal, off--power disconnected System: Green Blink--work normally, solid on--soft work abnormal, fast blink--soft upgrade 10/100/1000T RJ45 Interfaces (Port 1 to Port 8): 1000 LNK/ACT (Green), 10/100 LNK/ACT (yellow) Blink—port connected with data transmission; Soliton--port connected without data transmission 100/1000Mbps SFP Interfaces (Port 9 to Port 10): Green Blink- port connected with data transmission; Solid on- port connected without data transmission
EMC	Surge Immunity: 6KV Per: IEC61000-4-5 ESD Protection: ESD Level 4 Per: IEC61000-4-2;EFT Level 4 Per:IEC61000-4-4
Dimension	165x123x53.5mm
Weight	1.0kg
Working Temperature	-40°C to 75°C
Storage Temperature	'-40℃ to 80 ℃
MTBF	50,000hrs

Certificates	• CE Marking
	• EN 300 386 V2.2.1:2022 Telecommunication network equipment - Harmonised Standard for ElectroMagnetic Compatibility (EMC) Requirements
	• EN 50121-4:2016+A1:2019 Railway applications. Electromagnetic compatibility Emission and immunity of the signalling and telecommunications apparatus
	• EN 50155:2021, Railway applications. Rolling stock. Electronic equipment
	• EN 55011:2016+A2:2021 Industrial, scientific and medical equipment. Radiofrequency disturbance characteristics. Limits and methods of measurement
	• EN 55022:2010 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
	• EN 60950-1:2005 Information technology equipment – Safety – Part 1: General requirements
	• EN IEC 61000-3-2:2019, EN 61000-3-3:2013, EN 61000-4-2:2009, EN 61000-4-3:2006+A2:2010, EN 61000-4-4:2012, EN 61000-4-5:2014+A1:2017, EN 61000-4-6:2014, EN 61000-4-8:2010, EN 61000-4-11:2004+A1:2017, EN 61000-6-4:2007 Electromagnetic compatibility (EMC) Testing and measurement techniques
	• IEC 60068-2-27:2008 Environmental testing-part2-27:test- test ea and guidance: shock
	• IEC 60068-2-31:2008 Environmental testing-part2-31:Test- test Ec: Rough handling shocks, primarily for equipment-type specimens
	• IEC 60068-2-64:2008 Environmental testing-part2-64:2008 Test- test Fh: Vibration, broadband random and guidance
	• IEC 60215:2016 Safety requirements for radio transmitting equipment- General requirements and terminology
	• IEC 61967-1:2018 Integrated circuits- Measurement of electromagnetic emissions-Part 1: General conditions and definitions
	• IEC 62151: 2000 Safety of equipment electrically connected to a telecommunication network
	• Directive 2002/95/EC (RoHS 1),
	• CFR Part 15, Su voltage 2014/35/EU Directive
	• UL (UNDERWRITERS LABORATORIES)

Layer 2 functions

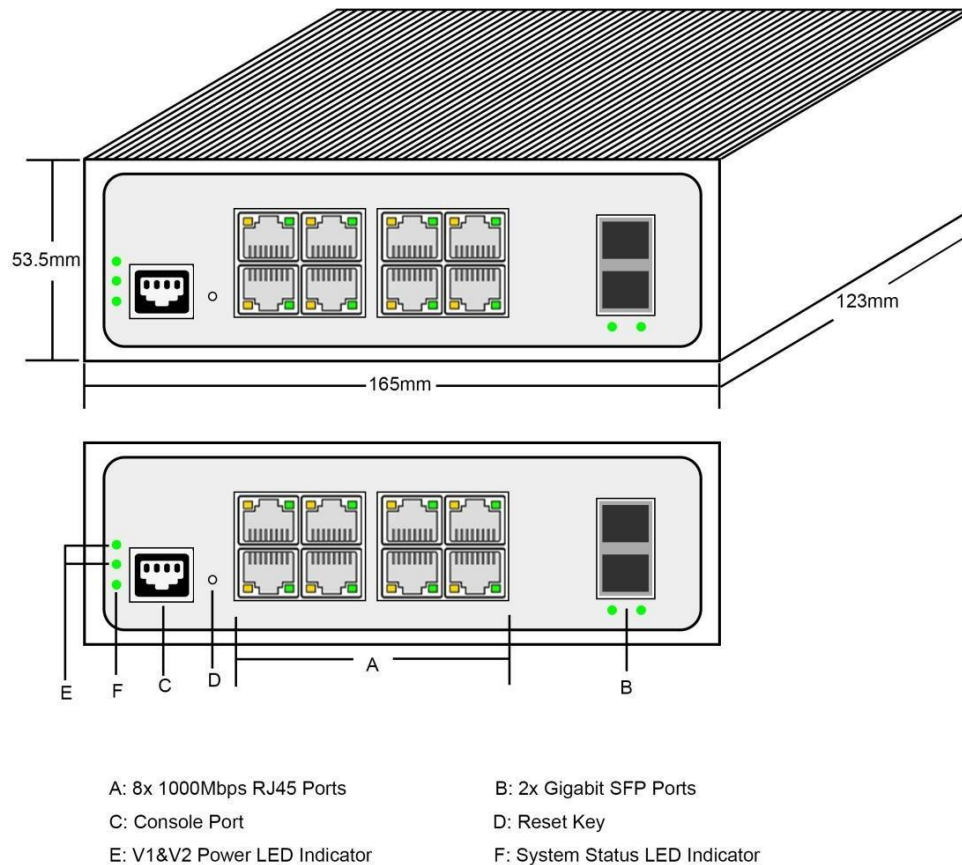|	
Port configuration	Auto-negotiationFlow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitorTraffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP)Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	<20ms G.8032 ERPS Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast LeaveMLD Snooping Multicast VLAN
QOS	8 mapping IDs to 8 level priority queuesCoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast)Bandwidth control per port
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping)ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDPPorts, Protocol Type; 802.1x Authentication (port-based e MAC-based)

	TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC andPort; Port Isolation Loopback detection
Management	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTPConfiguration Backup/Reload Dual Firmware LLDP
Synchronization,IEEE1588	Support IEEE1588v2 transparent clock
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 NTP/SNTP Client UPNP UDLD
Maintenance	Cable Diagnostics Ping SFP DDM(Digital Diagnostics Monitoring)Thermal protection System log (Local and Remote) Memory and CPU Monitoring

Layer 3 functions

Static Routing	IPv4 Unicast: Static Routing(Software Base)
	IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6

Dimension:

A: 8x 1000Mbps RJ45 Ports   B: 2x Gigabit SFP Ports
C: Console Port   D: Reset Key
E: V1&V2 Power LED Indicator   F: System Status LED Indicator

Ordering Information:

Product Model: DR4010P8C2F

Product Description: 10-Port gigabit managed industrial switch, with 8x10/100/1000Base-T ports, 2x

gigabit SFP slots, and 1 console port.

Note: SFP module & power supply of the industrial switch is not included, please order itseparately.

Packing Lists	10-Port gigabit managed industrial switch(DR4010P8C2F)
	User Guide
	Warranty Card