



Ethernet switch managed gigabit ICRL-M-16RJ45/4CP-G-DIN

- 16 Gigabit Ethernet RJ45 ports, 4 Gigabit Ethernet RJ45 ports shared with 4 SFP ports
- Layer 2 Network Performance
- Redundant power input with a input power range of 10 to 60VDC
- IP20 with an extreme operating temperature range of -40 to 75°C
- Suitable for PROFINET IO and EtherNet/IP

Ethernet managed gigabit switch with 20 RJ45 ports with 4 shared SFP ports

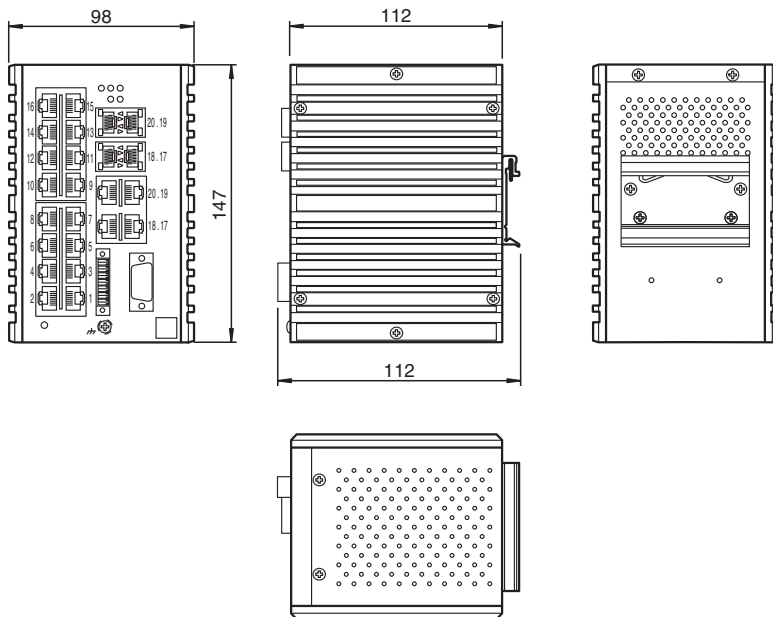


Function

The ICRL-M-16RJ45/4CP-G-DIN is a managed industrial Ethernet Switch with sixteen RJ45 Gigabit ports and four Gigabit RJ45/SF Combo ports. The rugged, industrial design and extended operating temperature range make the switch ideal for installations where reliability is critical, including factory automation, harsh environments, locations that may be prone to electrical magnetic interference and deployment in outdoor cabinets.

The robust suite of management features, advanced access control and security, and availability of up to 20 ports with SFP fiber options ensures the ICRL-M-16RJ45/4CP-G-DIN meets the high demands of mission-critical industrial networking applications.

Dimensions



Technical Data

General specifications

UL File Number	E185778
MTBF	35.2 years

Ethernet Interface

Connection type	RJ45 , SFP
Auto-MDI(-X)	yes
Autonegotiation	yes

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Ethernet Interface		Industrial Ethernet
Transfer rate		16 - 10BASE-T, 100BASE-TX, 1000BASE-T, 4 - SFP 100/1000 Mbps
Management		IPv4, IPv6, Console, HTTP, HTTPS, PortVision DX, SFTP, SNMP (v1, v2c, and v3), SSH, Telnet, TFTP
MIB		MIB-II, Bridge MIB, Ethernet-like-MIB, VLAN MIB, IGMP MIB, Private MIB
Monitoring		LLDP, Port Mirroring, RMON
Multicast		IGMP Query, IGMP Snooping, GMRP
Network performance		CFM, Jumbo Frames, QoS, CoSQueue Mapping, DSCP Priority Mapping
Network redundancy		STP, RSTP, MSTP, ERPS, Redundant Ring, LACP, Static Port Aggregation
Network services		DHCP Server (with Option 82), NTP, IEEE 1588 PTPv2 over UDP/IP
Notifications		E-Mail, Fault Relay, SNMP Traps, Syslog
Safety		RADIUS, TACACS+, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, MAC-Based Port Security
Traffic filtering		Storm Control (Broadcast, Multicast, and DLF), Rate Control, VLAN, Private VLAN, QinQTunneling, GVRP, IP Filtering, MAC Filtering, ARP Filtering
Cable type		Category 5e or better
Switch properties		
Hardware watchdog timer		10 s reset timer
MAC address table size		16K
Operating mode		Store and forward
Packet buffer size		1.5M Bytes shared memory for packet buffer with intelligent memory management unit for burst data traffic
Priority queues		4
VLAN entries		IEEE 802.1Q Tag VLAN with 256 VLAN Entries and provides 2K GVRP entries; 3 VLAN link modes- Trunk mode, Hybrid mode and Link access mode
SFP support		100BASE-FX Fiber, 1000BASE-SX/LX/LHX/XD/ZX
Standards		
IEEE 802.3 10BASE-T		yes
IEEE 802.3u 100BASE-TX		yes
IEEE 802.3x Flow Control and Back-pressure		yes
IEEE 802.1p Class of Service (CoS)		yes
IEEE 802.3ab 1000BASE-T		yes
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)		yes
IEEE 802.1Q VLAN and GVRP		yes
IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)		yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)		yes
IEEE 802.3ad Link Aggregation Protocol (LACP)		yes
IEEE802.1ad QinQ Tunneling		yes
IEEE 802.1x Port Based Network Access Protocol		yes
ITU-T G.8032 ERPS		yes
Indicators/operating means		
LED indication		see manual
Electrical specifications		
Rated operating voltage	U _e	10 ... 60 V DC
Power consumption		25 W
General information		Redundant power, relay output rating 0.5A Max. @ 24V DC
Nominal voltage		24 V DC
Inputs/Outputs		
Number/Type		16 x RJ45 , 4 x RJ45 shared with SFP ports , 4 SFP ports
Directive conformity		
Electromagnetic compatibility		

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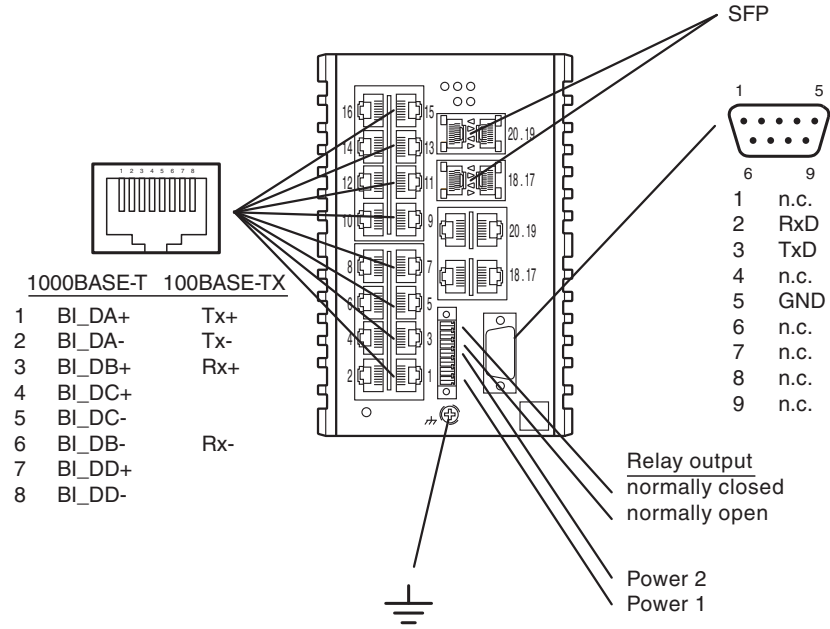
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Technical Data

Directive 2014/30/EU		EN 61000-6-2, IEC 61000-6-2 , EN 61000-6-4, IEC 61000-6-4
Standard conformity		
Electrical safety		CSA C22.2 No. 60950 / CSA C22.2 No. 60950/UL60950
Emitted interference		CISPR 22 , FCC Part 15 Subpart B Class A , EN61000-6-4, IEC61000-6-4
Noise immunity		EN61000-6-2, IEC61000-6-2
Ambient conditions		
Ambient temperature		-40 ... 75 °C (-40 ... 167 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 95 %
Altitude		0 ... 3048 m
Mechanical specifications		
Degree of protection		IP30
Connection		Power Supply Terminal Block (6-pin) Ethernet 16 x RJ45, 4 x RJ45 shared SFP, 4 x SFP
Material		
Housing		aluminium, black
Mass		1380 g
Dimensions		
Height		147 mm
Width		114 mm
Length		112 mm
Construction type		Cabinet module
Mounting		DIN rail or direct panel mounting

Connection



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Indication

