

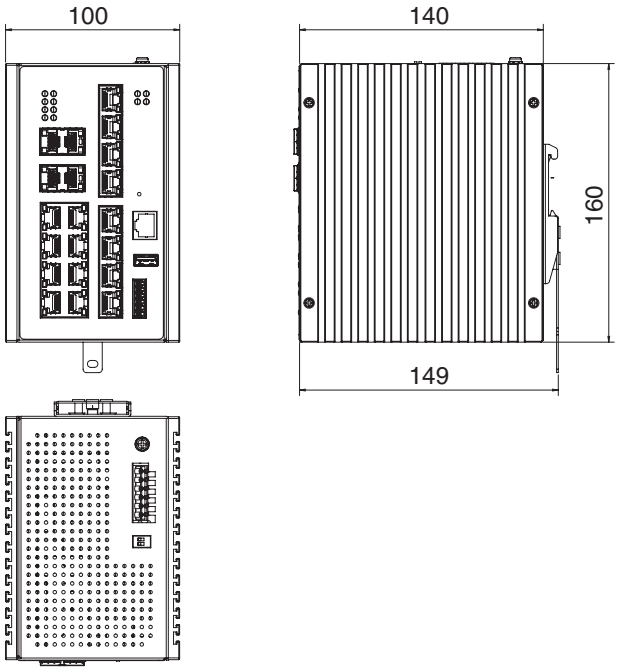
Ethernet switch managed gigabit

ICRL2-M-16RJ45/4SFP-10G-DIN

- Suitable for PROFINET IO and EtherNet/IP
- IP20 with an extreme operating temperature range of -40 to 70°C
- Redundant power input with an input power range of 12 to 48 V DC
- 16 Gigabit Ethernet RJ45 ports and 4 10 Gigabit SFP+ ports
- NEMA TS2 Certified

Ethernet managed gigabit switch with 10 gigabit SFP+

Dimensions



Technical Data

General specifications	
UL File Number	E223772
Ethernet Interface	
Auto-MDI(-X)	yes
Autonegotiation	yes
Ethernet Interface	Industrial Ethernet
Transfer rate	16 - 10BASE-T, 100BASE-TX, 1000BASE-T, 4 - 1000BASE-SX/LX, 10GBASE-SR/LR/ER
Management	IPv4, IPv6, Console, HTTP, HTTPS, SNMP (v1, v2c, and v3), SSH, Telnet, USB port, Auto-provisioning
MIB	MIB-II, Bridge MIB, Ethernet-like-MIB, VLAN MIB, IGMP MIB, Private MIB
Monitoring	LLDP, Port Mirroring, RMON
Multicast	IGMP Query, IGMP Snooping

Release date: 2026-03-11 Date of issue: 2026-03-11 Filename: 70189926_eng.pdf

Technical Data

Network performance		Jumbo Frames, QoS, CoS Queue Mapping, DSCP Priority Mapping, Bandwidth Control
Network redundancy		STP, RSTP, MSTP, ERPS, LACP, static port aggregation, dual homing
Network services		DHCP Server (with Option 82), SNTP
Notifications		E-Mail, Fault Relay, SNMP Traps, Syslog
Safety		RADIUS, TACACS+, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, IP/MAC-Based Port Security, ACL
Traffic filtering		Storm Control, Rate Control, VLAN, Private VLAN, QinQTunneling, GVRP, IP Filtering, MAC Filtering
Cable type		Category 5e or better
Switch properties		
MAC address table size		16K
Operating mode		Store and forward
Packet buffer size		12 Mbits
Priority queues		8
VLAN entries		4K
SFP support		Gigabit, 10 Gigabit, supports DDMI
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 802.3z 1000BASE-SX/LX		yes
IEEE 802.3ae 10GBASE-SR/LR/ER		yes
IEEE 802.3az Energy Efficient Ethernet		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	12 ... 48 V DC
Power consumption		30 W
General information		Redundant power, digital output (relay output) rating 1.0 A Max. @ 24 V DC
Interface 1		
Transfer rate		100 Mbit/s 1/10 Gbit/s
Inputs/Outputs		
Number/Type		16 x RJ45 , 4 x SFP+
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		
Standard conformity		
Degree of protection		NEMA TS2

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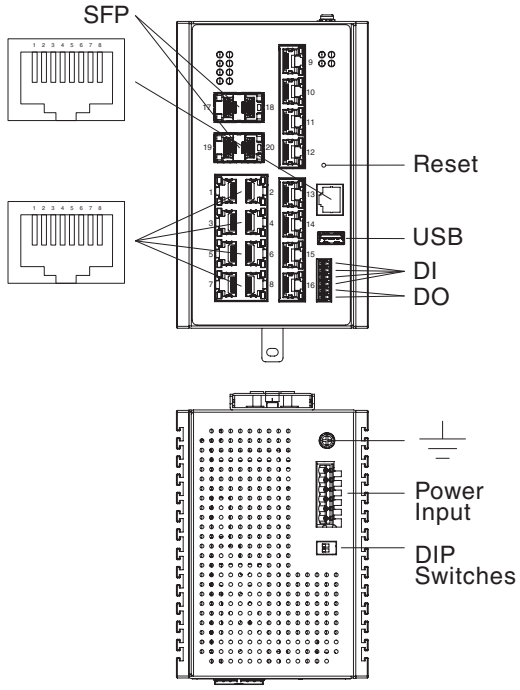
Electrical safety	CSA C22.2 No. 61010-1-12 UL 61010-1, IEC 61010-2-201
Emitted interference	
Noise immunity	
Approvals and certificates	
UL approval	E223772
Ambient conditions	
Ambient temperature	-40 ... 70 °C (-40 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	max. 95 %
Altitude	0 ... 3048 m
Mechanical specifications	
Degree of protection	IP30
Connection	Power Supply Terminal Block (6-pin) Ethernet 16 x RJ45 , 4 x SFP+
Material	
Housing	aluminium, black
Mass	1295 g
Dimensions	
Height	160 mm
Width	100 mm
Length	140 mm
Construction type	Cabinet module
Mounting	DIN rail or direct panel mounting

Connection

Console port

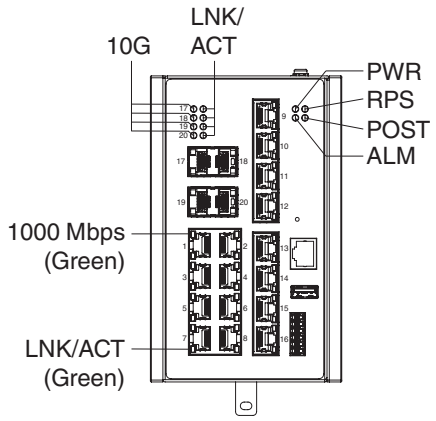
1	n.c.	5	GND
2	n.c.	6	RxD
3	TxD	7	n.c.
4	n.c.	8	n.c.

	1000BASE-T	100BASE-TX
1	BI_DA+	Tx+
2	BI_DA-	Tx-
3	BI_DB+	Rx+
4	BI_DC+	
5	BI_DC-	
6	BI_DB-	Rx-
7	BI_DD+	
8	BI_DD-	



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Indication



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