



## Ethernet switch managed gigabit ICRL-M-8RJ45/4SFP-G-DIN

- 8 Gigabit Ethernet RJ45 ports and 4 Gigabit SFP ports with DDM function
- Layer 2 Network Performance
- Redundant power input with an input power range of 10 to 36VDC
- IP20 with an extreme operating temperature range of -40 to 75°C
- Suitable for PROFINET IO and EtherNet/IP

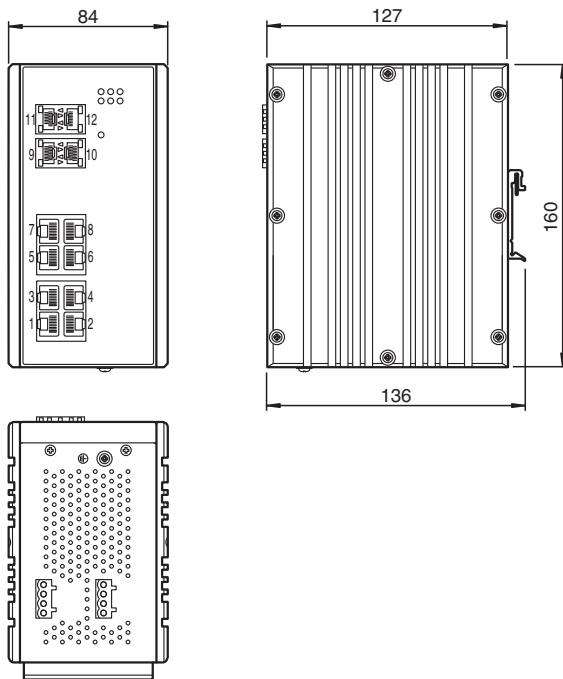
Ethernet managed gigabit switch with 8 RJ45 and 4 SFP ports



### Function

The ICRL-M-8RJ45/4SFP-G-DIN is a Gigabit industrial Ethernet Switch with eight RJ45 ports and four Gigabit SFP sockets for optical fiber network connection. It provides an Ethernet MAC controller with 24 Gbps Switch fabric bandwidth with 9K jumbo frame forwarding. The robust system design makes the switch survive under harsh outdoor environment with extreme electric magnetic interference and the variation of environment temperature. The switch also provides your network infrastructure with great performance and safety with network access control, and the ability to handle burst packets with smart buffer management for IP surveillance in real infrastructures.

### Dimensions



### Technical Data

#### General specifications

UL File Number	E185778
MTBF	69 years

#### Ethernet Interface

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

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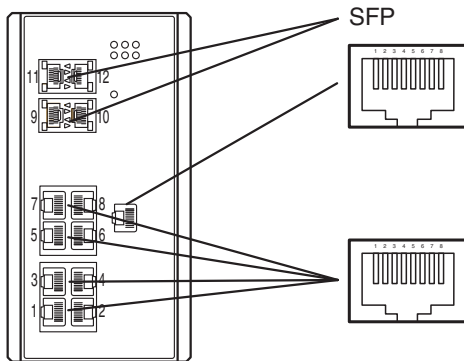
## Technical Data

Autonegotiation		yes
Ethernet Interface		Industrial Ethernet
Transfer rate		8 - 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		8
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
<b>Indicators/operating means</b>		
LED indication		see manual
<b>Electrical specifications</b>		
Rated operating voltage	U <sub>e</sub>	10 ... 36 V DC
General information		Redundant power, digital output (relay output) rating 0.5A Max. @ 24V DC, Digital input
Nominal voltage		24 V DC
<b>Inputs/Outputs</b>		
Number/Type		8 x RJ45 , 4 x SFP
<b>Directive conformity</b>		

**Technical Data**

<b>Electromagnetic compatibility</b>	
Directive 2014/30/EU	EN 61000-6-2, IEC 61000-6-2 , EN 61000-6-4, IEC 61000-6-4
<b>Standard conformity</b>	
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
<b>Ambient conditions</b>	
Ambient temperature	-40 ... 75 °C (-40 ... 167 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	max. 95 %
Altitude	0 ... 3048 m
<b>Mechanical specifications</b>	
Degree of protection	IP30
Connection	Power Supply Terminal Block (4-pin) Ethernet 8 x RJ45 , 4 x SFP
<b>Material</b>	
Housing	aluminium, black
Mass	1460 g
<b>Dimensions</b>	
Height	160 mm
Width	84 mm
Length	127 mm
Construction type	Cabinet module
Mounting	DIN rail or direct panel mounting

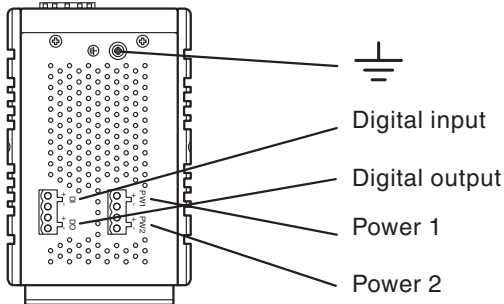
**Connection**



**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

