IACM-IOLM8A



Product Type	**IACM-IOLM8A-ECT**	**IACM-IOLM8A-PN**	**IACM-IOLM 8A-EIP**
Communication Protocol	EtherCAT	ProfiNET	EtherNet/IP
Basic parameters	Shell material	Aluminium alloy	
	Shell color	Metal silver	
	levels of protection	IP67, total epoxy filling seal	
	size	205mmx60mm x34.4mm	
	weight	515 g	
	service temperature	-25℃ ....70℃	
	Storage / transport temperature	-40℃...85℃	
	operation humidity	5%..95%	
	Save / transport the humidity	5%..95%	
	Operate atmospheric pressure	80KPa...106KPa	
	Save / transport atmospheric pressure	80KPa...106KPa	
	I / O port tightening torque	M12:0.5Nm	
	application environment	Compliance with EN-61131	
	Vibration test	Compliance with IEC60068-2	

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IO LINK Master parameters	Impact test	In accordance with IEC60068-27
	Free fall test	In accordance with IEC60068-32
	Electromagnetic compatibility (EMC)	Consistent with IEC61000-4-2, -3, -4
	Certified mounting hole specifications	Ø4.5mmx1:Ø5.5mm x1
	I / O connection mode	M12, 5pin holder, A code, IP67
	Number of master stations	Max. 8 ports is available
	Connection mode	M12,5-core, A-code, female head
	IO-link version	V1.1.2
	Communication rate	COM1: 4.8KBps COM2:38.4KBps COM3:230.4KBps
	From Master to slave communication distance	≤20 meters
	From master to master distance	≤100meters
	Port voltage L +	type.24VDC(via US)
	Port current L +	2A(via US)
	Class A	8ports, X1...X 8
Digital input and output parameters	No. Of input	8-road, adaptive
	No.of output	X1..X 8
	Input polarity	PNP
	Signal "0" voltage	-0.3...5VDC
	Signal "1" voltage	12..30VDC
	input current	type.5mA(via Us)
	Output quantity	8-road, adaptive
	Output port location	X1...X 8
	Input polarity	PNP
	Output voltage	Single-channel 2A (via UA)
	Port protection	Power supply short-circuit protection, power supply port overload protection

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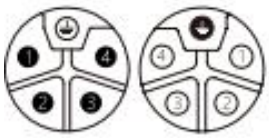
SUPERISYS

Module indicator light

<table>
<tr><th colspan="3">EtherCat protocol</th><th>ProfiNet protocol</th><th colspan="2">The EtherNet / IP protocol</th></tr>
<tr><td>PWR</td><td colspan="5">Green: the module power supply is normal
Red: the module power supply is back-connected</td></tr>
<tr><td>I/O</td><td colspan="5">Green: normal channel signal
Red: short circuit of port power supply</td></tr>
<tr><td>LINK</td><td colspan="5">Green: normal link
Yellow flash: normal link, data communication is normal
Light off: No link was established</td></tr>
<tr><td rowspan="2">RUN</td><td>Green: OP state green slow flash: SAFEOP state</td><td rowspan="2">SF</td><td rowspan="2">Red: the module failure</td><td rowspan="2">MS</td><td rowspan="3">Green: the module status is normal green flash: the module is not configured
Red: the module failure</td></tr>
<tr><td>Green flash mob: Pre-OP status
Go-Out: the Init state</td></tr>
<tr><td rowspan="2">ERR</td><td rowspan="2">Red flash: a communication error has occurred
Off: The module status is normal</td><td rowspan="2">BF</td><td>Red: Internal error</td><td></td></tr>
<tr><td>Red Flash: Device Name /
IP address /
Module group status error</td><td>NS</td><td>Green: the network status is normal
Green flash: the communication is not established
Red flash: Communication is interrupted</td></tr>
<tr><td>IO-LINK</td><td colspan="5">Green: Port operation (running) status
green flash: During port connection or the wrong device
Green slow flash: the port is in the pre-operation state
The Green light off: the port is closed</td></tr>
</table>

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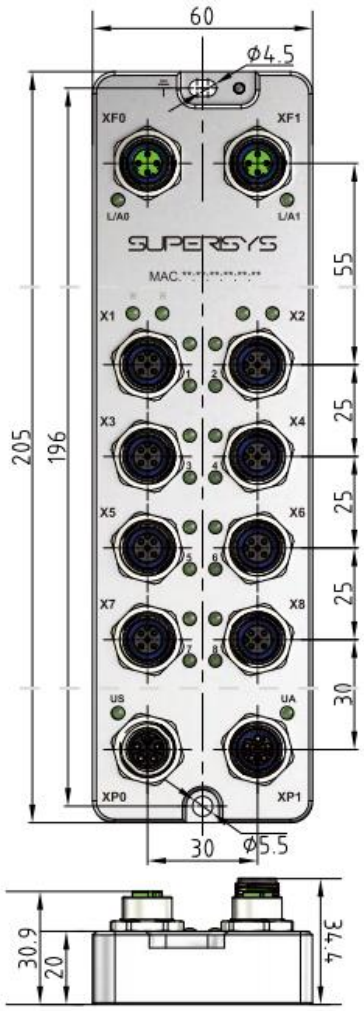
Data port pin definition	Connect mode	2xM12 D-code; 4-core holder;	XF0 , XF1  1. TX+ 2. RX+ 3. TX- 4. RX-
	Physical layer	Ethernet	
	propagation velocity	10 / 100 Mbps, full-duplex	
	Characteristic	Meet with protocol characteristics	
	Alarm function	Diagnostic alarm, and process alarm	
	Minimum cycle time	1ms	
	Communication port tightening torque	M12: 0.5Nm	

Secondary power port pin definition	Accessory power supply port M12 L-code Female end & male end Needle foot definition	Power connection mode	M12,5-core, L-code, male / female head	XP0 XP1  Male Female 1. +24V_Us 2. GND_Ua 3. GND_Us 4. +24V_Ua 5. FE
		System power supply voltage us	18...30 VDC (type.24VDC)	
		Auxiliary power supply voltage ua	18...30 VDC (type.24VDC)	
		total current ls	12A	
		total current la	12A	
		Static operating current, Ic	≤150mA	
		Power reverse polarity protection	Yes	
		The power supply port tightening torque	M12:0.5Nm	

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I / O port pin definition		
Port M12A-code female end	针脚定义 M12(X1~X8)  Class A 1. V+ 2. In/output 3. ov 4 .C/Q 5. N/C	地址分布 Byte 0 Bit0 X1P2 Bit X2P2 Bit2 X3P2 Bit3 X4P2 Bit4 X5P2 Bit5 X6P2 Bit6 X7P2 Bit7 X8P2

Product size



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