

Шины ввода-вывода IO-Link серии CIO200

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

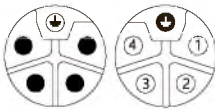
Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: auh@nt-rt.ru || сайт: <https://akusense.nt-rt.ru>



NEW!

Basic parameters	Shell material		Aluminum alloy		
	Shell color		Metallic silver		
	Protect degree		IP67 , Epoxy encapsulation		
	External dimensions		205mm × 60mm ×34.4mm		
	Weight		515g		
	Operating temperature		-25℃~70℃		
	Storage/transport temperature		-40℃~85℃		
	Operating humidity		5%~95%		
	Storage/transport humidity		5%~95%		
	Operating atmospheric pressure		80KPa~106KPa		
	Storage/transport atmospheric pressure		80KPa~106KPa		
	I/O port fastening torque		M12:0.5Nm		
	Application environment		Compliant with EN-61131		
	Vibration testing		Compliant with IEC60068-2		
	Shock testing		Compliant with IEC60068-27		
	Free fall testing		Compliant with IEC60068-32		
	Electromagnetic compatibility (EMC)		Compliant with IEC61000-4-2,-3,-4		
	Certification		CE,RoHS		
	Installation hole specifications		Φ4.5mm × 1 ;Φ5.5mm × 1		
Pinout definition for data port	M12 D-code Female end	Connection method	2 × M12 D-code; 4-pin socket		XF0 , XF1  1. TX+ 2. RX+ 3. TX- 4. RX-
		Physical layer	Ethernet		
		Transmission speed	10/100 Mbps, Full duplex		
		Characteristics	Compliant with protocol specifications		
		Alarm function	Diagnosis alarm, process alarm		
		Minimum cycle time	1ms		
		Communication port fastening torque	M12:0.5Nm		
Pinout definition for auxiliary power supply port	Auxiliary power supply port	Power supply connection method	M12, 5-pin, L-code, male/female		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)		
	M12 L-code Female end & Male end	Total current Is	12A		
		Total current Ia	12A		
		Static operating current Ic	≤150mA		
	Pinout definition	Reverse power protection	Have		
		Power port fastening torque	M12:0.5Nm		

Module main station

CIO 200 Series

IO-Link Master station parameters	The number of ports on the master station	Maximum configurable 8 ports				
	Master station connection method	M12, 5-pin, A-code, female				
	IO-link Version	V1.1.2				
	Communication rate	COM1:4.8KBps;COM2:38.4KBps;COM3:230.4KBps				
	Port voltage L+	type.24VDC (via US)				
	Port current L+	2A(via US)				
	Class A	8 ports, X1 ~ X8				
	Master-slave communication distance	≦20m				
	Master-master communication distance	≦100m				
Digital Input Output parameters	Number of inputs	8-channel, adaptive				
	Input port location	X1 ~ X8				
	Input polarity	PNP				
	Signal "0" voltage	-0.3 ~ 5VDC				
	Signal "1" voltage	12 ~ 30VDC				
	Input current	type.5mA(via US)				
	Number of outputs	8-channel, adaptive				
	Output port location	X1 ~ X8				
	Input polarity	PNP				
	Output current	Single channel 2A (via UA)				
	Port protection	Power supply short-circuit protection, overload protection for power supply port				
Module indicator lights	PWR	Module power normal				
		Red: Module power reverse connection				
	I/O	Green: Channel signal normal				
		Red: Port power short-circuit				
	LINK	Green: Connection normal				
		Yellow flashing: Connection normal, data communication normal				
		Off: No connection established				
	RUN	Green: OP status	SF	Red: module failure	MS	Green: Module status is normal
						Green flash: module is not configured
			Green fast flashing: Pre-OP status	BF	Red: internal error	Red: module failure
		Off: Init status	Flashing red: Device name/IP address/module group status error		NS	Green: The network status is normal
	ERR	Red flashing: Communication error		Green flash: communication not established		
	Off: module status is normal		Flashing red: communication interrupted			
	IO-LINK	Green: Port operation (running) status				
		Flashing green quickly: port connection process or wrong device				
		Flashing green slowly: The port is in pre-operation state				
		Green off: port is closed				
	Protocol	EtherCat Protocol		ProfiNet Protocol		EtherNet/IP Protocol
	Model	CIO200-ECIO-8A		CIO200-PNIO-8A		CIO200-EIIO-8A

I/O Port pin definition

Pin definition		Address distribution																			
Port	M12(X1~X8)  Class A		<table><tr><th>Byte</th><th>0</th></tr><tr><td>Bit0</td><td>X1P2</td></tr><tr><td>Bit1</td><td>X2P2</td></tr><tr><td>Bit2</td><td>X3P2</td></tr><tr><td>Bit3</td><td>X4P2</td></tr><tr><td>Bit4</td><td>X5P2</td></tr><tr><td>Bit5</td><td>X6P2</td></tr><tr><td>Bit6</td><td>X7P2</td></tr><tr><td>Bit7</td><td>X8P2</td></tr></table>	Byte	0	Bit0	X1P2	Bit1	X2P2	Bit2	X3P2	Bit3	X4P2	Bit4	X5P2	Bit5	X6P2	Bit6	X7P2	Bit7	X8P2
Byte	0																				
Bit0	X1P2																				
Bit1	X2P2																				
Bit2	X3P2																				
Bit3	X4P2																				
Bit4	X5P2																				
Bit5	X6P2																				
Bit6	X7P2																				
Bit7	X8P2																				
M12	1. V+																				
A-code	2. In/Output																				
female end	3. 0 V																				
	4. C/Q																				
	5. N/C																				

CIO 200 Series

IO-Link Master station parameters	The number of ports on the master station	Maximum configurable 8 ports					
	Master station connection method	M12, 5-pin, A-code, female					
	IO-link Version	V1.1.2					
	Communication rate	COM1:4.8KBps;COM2:38.4KBps;COM3:230.4KBps					
	Port voltage L+	type.24VDC (via US)					
	Port current L+	2A(via US)					
	Class B auxiliary voltage	type.24VDC(via UA)					
	Class B auxiliary current	2A(via UA)					
	Class A	4 ports, X1~X4					
	Class B	4 ports, X5~X8					
	Master-slave communication distance	≤20m					
	Master-master communication distance	≤100m					
	Digital Input Output parameters	Number of inputs	4-channel, adaptive				
Input port location		X1~X4					
Input polarity		PNP					
Signal "0" voltage		-0.3~5VDC					
Signal "1" voltage		12~30VDC					
Input current		type.5mA(via US)					
Number of outputs		4-channel, adaptive					
Output port location		X1~X4					
Input polarity		PNP					
Output current		Single channel 2A (via UA)					
Port protection		Power supply short-circuit protection, overload protection for power supply port					
Module indicator lights	PWR	Module power normal					
		Red: Module power reverse connection					
	I/O	Green: Channel signal normal					
		Red: Port power short-circuit					
	LINK	Green: Connection normal					
		Yellow flashing: Connection normal, data communication normal					
		Off: No connection established					
	RUN	Green: OP status	SF	Red: module failure	MS	Green: Module status is normal	
						Green slow flashing: SAFEOP status	Green flash: module is not configured
			Green fast flashing: Pre-OP status	BF	Red: internal error	NS	Red: module failure
							Off: Init status
		ERR	Red flashing: Communication error	Flashing red: Device name/IP address/module group status error	Flashing green quickly: port connection process or wrong device	Green flash: communication not established	
						Off: module status is normal	Flashing green slowly: The port is in pre-operation state
	IO-LINK	Green: Port operation (running) status					
		Flashing green quickly: port connection process or wrong device					
		Flashing green slowly: The port is in pre-operation state					
		Green off: port is closed					
Protocol	EtherCat Protocol		ProfiNet Protocol		EtherNet/IP Protocol		
Model	CIO200-ECIO-4A4B		CIO200-PNIO-4A4B		CIO200-EIIO-4A4B		

I/O Port pin definition

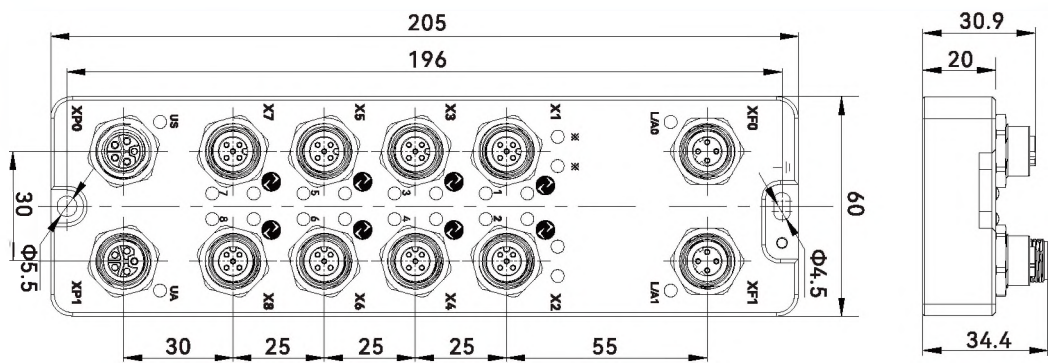
Pin definition		Address distribution	
Port	M12(X1~X8)		
M12	Class A	Class B	
A-code	1. V+	1. V+	
female end	2. In/Output	2. P24V	
	3.0V	3.0V	
	4. C/Q	4. C/Q	
	5. N/C	5. N24V	

Byte	0
Bit0	X1P2
Bit1	X2P2
Bit2	X3P2
Bit3	X4P2

Module main station

Dimensions

Unit: mm



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