

WEINTEK



iR Series Remote IO

Easy integration x Scalable solution

Easy Integration

Weintek's iR-Series I/O modules provide unparalleled flexibility, allowing seamless integration with CODESYS-based controllers and compatibility with 3rd-party Modbus TCP, EtherNet/IP, EtherCAT, and CANopen masters. Simple installation, facilitated by a DIN rail-mountable design and an included push-in style terminal block, ensures a hassle-free setup.



I/O Modules

Coupler protocol: MODBUS TCP/IP, EtherNet/IP, CANopen and EtherCAT
I/O Module: Digital I/O, Analog I/O, and Temperature Module

iR series I/O integrates with CODESYS equipped HMIs to provide an all-in-one solution. In addition, iR couplers support common communication protocols and may be used with 3rd party controllers

Helpful Features

Software-based noise filtration, user-defined analog-to-digital conversion, and built-in RTD and TC parameters for ease-of-setup

iR-ETN40R I/O coupler is compatible with Modbus TCP/IP and EtherNet/IP, features 24 digital inputs and 16 relay outputs, with the option to configure 4 inputs as high-speed counters

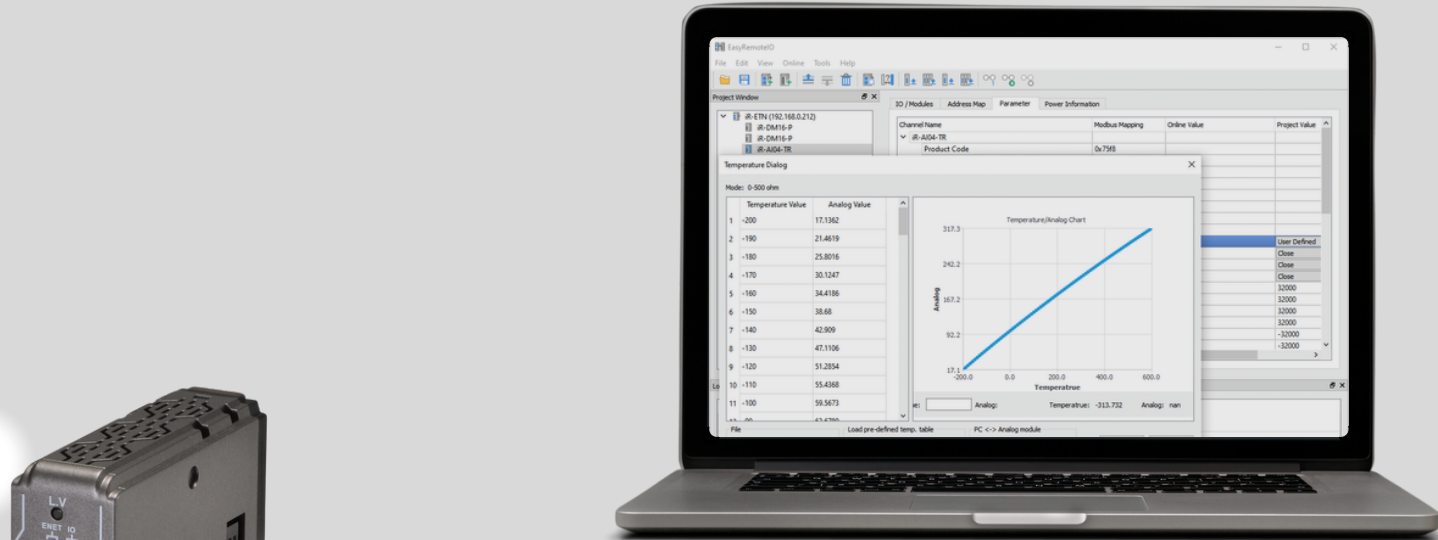
Flexible and Scalable

Modular design that supports Ethernet cascading in a daisy-chain topology

*Ethernet cascading supported on iR-ETN I/O couplers

Simplify. Connect. Control.

EasyRemote IO, an I/O configuration software, streamlines integration with an intuitive interface for connecting, monitoring, and controlling Ethernet-based I/O couplers while enabling seamless device description export to CODESYS and EtherNet/IP masters.



Auto Detect

Automatically find Ethernet based I/O couplers on your local network

Easy Deployment

I/O projects may be reused for expedited deployment

The essentials

Monitor or update I/O values and diagnose analog input errors or channel disconnects for real-time testing

Special features

Quickly convert analog signals to engineering units via scaling and define custom temperature profiles

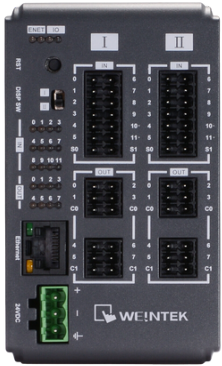


Communication Coupler

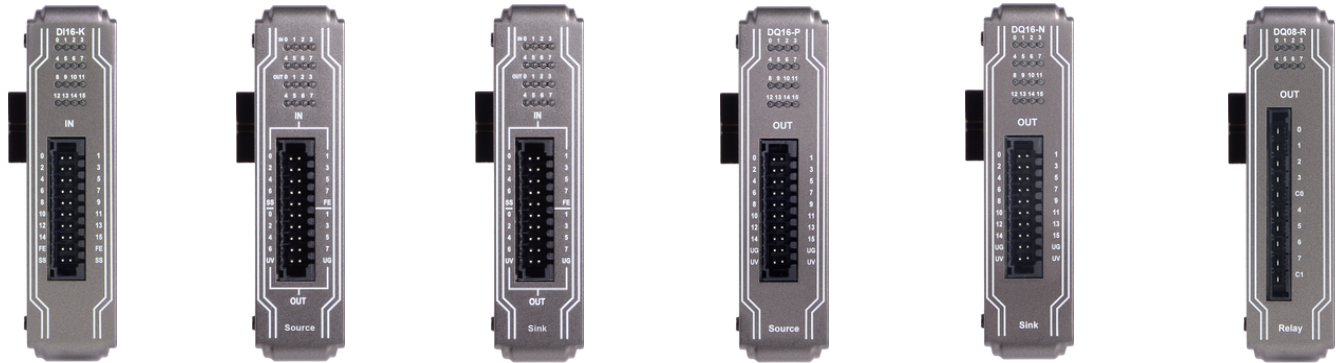


Model		iR-ETN	iR-COP	iR-ECAT
Expansion I/O Module	Number of Bus Terminals	Depends on Power Consumption	Depends on Power Consumption	Depends on Power Consumption
	Digital Input Point	Max. 256	Max. 256	Max. 256
	Digital Output Point	Max. 128	Max. 128	Max. 128
	Analog Input Channel	Max. 64	Max. 64	Max. 64
	Analog Output Channel	Max. 64	Max. 64	Max. 64
Data Transfer Rate		10/100 Mbps	50k~1 Mbps	100 Mbps
Max Number of TCP/IP Connections		8 Connections	-	-
Protocol		Modbus TCP/IP Server, EtherNet/IP adapter	CANopen Slave	EtherCAT Slave
Isolation		Network to Logic Isolation : Yes	CAN bus Isolation : Yes	Network to Logic Isolation : Yes
Power	Power Supply	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)
	Power Consumption	Nominal 100mA@24VDC	Nominal 100mA@24VDC	Nominal 100mA@24VDC
	Current for Internal Bus	Max 2A@5VDC	Max 2A@5VDC	Max 2A@5VDC
	Current Consumption	220mA@5VDC	170mA@5VDC	270mA@5VDC
	Power Isolation	Yes	Yes	Yes
Specification	Back-up Fuse	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery
	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Plastic
	Dimensions WxHxD	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm
	Weight	Approx. 0.15 kg	Approx. 0.15 kg	Approx. 0.15 kg
Environment	Mount	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting
	Protection Structure	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)
	Operating Temperature	0° ~ 55°C (32° ~ 131°F)	0° ~ 55°C (32° ~ 131°F)	0° ~ 55°C (32° ~ 131°F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certification		Conforms to: EN 55032: 2012+AC: 2013, Class A EN 61000-6-4: 2007+A1:2011 EN 55024: 2010+A1: 2015 EN 61000-6-2:2005		
		UL cULus Listed		
		CE Marked		

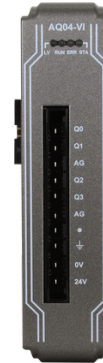
Ethernet I/O module



Model		IR-ETN40R
Expansion I/O Module		
	No. of Bus Terminals	Depends on Power Consumption
	Digital Input Point	Max. 224
	Digital Output Point	Max. 112
	Analog Input Channel	Max. 64
	Analog Output Channel	Max. 64
Data Transfer Rate		10/100 Mbps
Max. Number of TCP/IP Connections		8 connections
Protocol		Modbus TCP Server, EtherNet/IP adapter
Isolation		Network to Logic Isolation : Yes
No. of Ports		1
Digital Output		
	Total Number of Outputs	16
	Output Logic	Relay
	Output Voltage	250VAC/30VDC
	Output Current	2A per channel (Max 8A)
Digital Input		
Total Number of Inputs		24
General Input	Input Logic	Sink or Source
	Number of Inputs	20
	Logic 1 Input Voltage	15~28 VDC
	Logic 0 Input Voltage	0~5 VDC
	Input Impedance	5.6 KΩ
High-speed Input	Number of Inputs	4
	Input Logic	SINK INPUT (PNP)
	Logic 1 Input Voltage	15~28 VDC
	Logic 0 Input Voltage	0~5 VDC
	Max. Input Frequency	20KHz
	Input Impedance	3 KΩ
Isolation Power		Input: Yes, optical isolation, Output: Yes, electromagnetic isolation
Specification		
	Power Supply	24 VDC (-15%/+20%)
	Power Consumption	Nominal 255mA@24VDC
	Current for Internal Bus	Max 2A@5VDC
	Current Consumption	520mA@5VDC
	Power Isolation	Yes
	Back-up Fuse	≤ 1.6A Self-recovery
	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	64 x 109 x 81 mm
	Weight	Approx. 0.27 kg
	Mount	35mm DIN rail mounting
Environment		
	Protection Structure	IP20
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)
	Operating Temperature	-10° ~ 60°C (14° ~ 140°F)
Certification		
	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005
	EtherNet/IP	ODVA Conformance Test
	UL	cULus Listed
	CE	CE Marked



Model		iR-DI16-K	iR-DM16-P	iR-DM16-N	iR-DQ16-P	iR-DQ16-N	iR-DQ08-R
Input Logic		Sink or Source	Sink or Source	Sink or Source	N/A	N/A	N/A
Number of Inputs		16	8	8	0	0	0
Output Logic		N/A	Source	Sink	Source	Sink	Relay
Number of Outputs		0	8	16	16	16	8
Current Consumption		83mA@5VDC	130mA@5VDC	130mA@5VDC	196mA@5VDC	205mA@5VDC	220mA@5VDC
HIGH Level Input Voltage		15~28VDC	15~28VDC	15~28VDC	N/A	N/A	N/A
LOW Level Input Voltage		0~5 VDC	0~5 VDC	0~5 VDC	N/A	N/A	N/A
Output Voltage		N/A	11~28VDC	11~28VDC	11~28VDC	11~28VDC	250VAC/ 30VDC
Output Current		N/A	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	2A per channel (Max 8A)
Isolation		Input: Optical Isolation	Input: Optical Isolation	Input: Optical Isolation	Input: N/A	4A) Input: N/A	Input: N/A
		Output: N/A	Output: Optical Isolation	Output: Optical Isolation	Output: Optical Isolation	Output: Optical Isolation	Output: Electromagnetic Isolation
Specification	Enclosure	Plastic					
	Dimensions WxHxD	27 x 109 x 81 mm					
	Weight	Approx. 0.12 kg					
	Mount	35mm DIN rail mounting					
Environment	Protection Structure	IP20					
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)					
	Operating Temperature	0° ~ 55°C (32° ~ 131°F)					
Connection	Cross-section	AWG 28-16					
Certification							
EMC Immunity		Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005					
UL		cULus Listed					
CE		CE Marked					



Model		iR-AI04-VI	iR-AM06-VI	iR-AQ04-VI	iR-AI04-TR
Number of Analog Inputs		4 (±10V/ ±20mA)	4 (±10V/ ±20mA)	0	4 (RTD/Thermocouple)
Number of Analog outputs		0	2 (±10V/ ±20mA)	4 (±10V/ ±20mA)	0
Current Consumption		70mA@5VDC	70mA@5VDC	65mA@5VDC	65mA@5VDC
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)	24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)	24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)	24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)
Specification	PCB Coating	Yes			
	Enclosure	Plastic			
	Dimensions WxHxD	27 x 109 x 81 mm			
	Weight	Approx. 0.12 kg			
	Mount	35mm DIN rail mounting			
Environment	Protection Structure	IP20			
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)			
	Operating Temperature	0° ~ 55°C (32° ~ 131°F)			
	Relative Humidity	10% ~ 90% (non-condensing)			
Connection	Cross-section	AWG 28-16		AWG 24-16	
Certification					
	EMC Immunity	Conforms to: EN 55032: 2012+AC: 2013, Class A EN 61000-6-4: 2007+A1:2011 EN 55024: 2010+A1: 2015 EN 61000-6-2:2005			
	UL	cULus Listed			
	CE	CE Marked			

Founded in 1996, Weintek Labs is a global-leading HMI manufacturer and is dedicated to the development, design, and manufacturing of practical HMI solutions. Weintek Lab's mission is to provide quality, customizable HMI-solutions that meet the needs of all industrial automation requirements while maintaining customer satisfaction by providing "on-demand" customer service. Weintek Labs brought their innovative technology to the United States in 2016, Weintek USA, INC., to provide quality and expedient solutions to the North American industrial market.

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