

HX-RIO3 Series

Remote I/O meets intelligence with the new HX-RIO3



HIGHLIGHTS

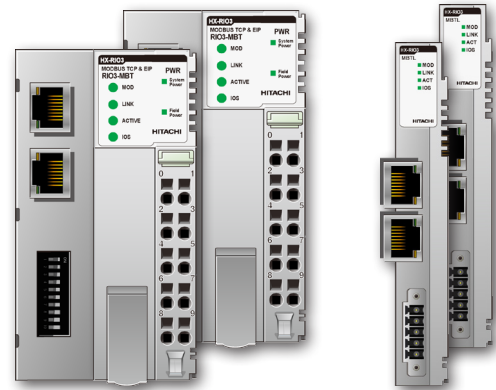
- Maximum on flexibility with more than 50 available I/O modules
- Standard and Light Network Adapter for cost sensitive applications
- CODESYS based Modbus Adapter for enhanced and intelligent remote I/O systems
- Webserver and Web visualization for remote maintenance and data monitoring
- OPC UA and MQTT capability for demand in high grade IoT applications
- Spring Type and Connector Type modules in regards of customers wiring preference
- Connector Type Module up to 32-points allows creating a highly economic solution

Fieldbus Communication Capability

A wide range of communication protocols such as Modbus TCP/RTU, EtherCAT, PROFINET and many more facilitates the system integration.

Network adapters are available as standard and light version.

Light Network Adapter design has been designed for small and cost-sensitive applications. The small and modern appearance allows the installation into a cabinet with a reduced size.



EtherNet/IP

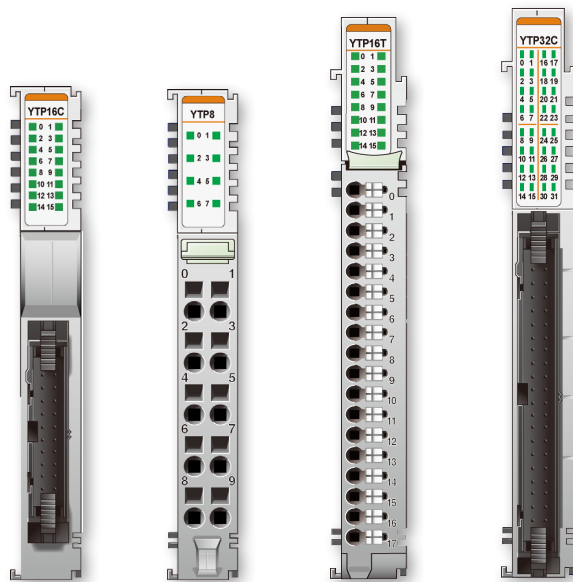
EtherCAT
Technology Group

Modbus

PROFINET

PROFIBUS

CANopen



Digital & Analog I/O

The flexibility results from the variety of available I/O modules. Modules are selectable with spring type or connector type up to 32-Points. The intuitive design allows the rewiring or exchange of modules without interrupting the subsequent modules or the entire system.

The broad range of modules allows the integration into solutions in various industry sectors. Besides well-known standard I/O modules, the HX-RIO3 offers high-precision analog modules up to 16 bits and special modules such as load cell for weight measurement applications.

Programmable Network Adapter RIO3-CP3MBT

Expand your system with the CODESYS programmable Network Adapter out of the HX-RIO3 series.

Meet the IoT demands with the integration of the CODESYS environment into a Modbus TCP/RTU network adapter. Use OPC UA connecting to cloud services and create your remote maintenance idea by visualizing and monitoring your application by using the web visualization function.

Extend your solution by using the entire range of the available HX-RIO3 I/O portfolio.



CODESYS

OPC UA

UL

CE

Fieldbus Interface Modules

RIO3-PBA	Profibus Adapter
RIO3-PNA	Profinet Adapter
RIO3-ECA	EtherCAT Adapter
RIO3-MBR	Modbus RTU RS485 Adapter
RIO3-MBT	Modbus TCP Ethernet Adapter
RIO3-CAN	CANopen Adapter
RIO3-CP3MBT	CODESYS Programmable, Modbus TCP Ethernet Adapter
RIO3-PNAL	Profinet Adapter, light version
RIO3-ECAL	EtherCAT Adapter, light version
RIO3-MBRL	Modbus RTU RS485 Adapter, light version
RIO3-MBTL	Modbus TCP Ethernet Adapter, light version

Digital Input Modules

RIO3-XDP8	24VDC 8-channel sink input module
RIO3-XDP16C	24VDC 16-channel sink input module, connector type
RIO3-XDP16T	24VDC 16-channel sink input module, terminal block
RIO3-XDP32C	24VDC 32-channel sink input module, connector type
RIO3-XY16T	24VDC 8-channel input + 8 channel output module, terminal block
RIO3-XAH4	230VAC 4 channel Input module

Digital Output Modules

RIO3-YTP8	24VDC 8-channel source output module
RIO3-YTP16C	24VDC 16-channel source output module, connector type
RIO3-YTP16T	24VDC 16-channel source output module, terminal block
RIO3-YTP32C	24VDC 32-channel source output module, connector type
RIO3-YS4	240V AC/DC 0,5A 4 channel solid state relay module
RIO3-YS8	240V AC/DC 0,5A 8 channel solid state relay module
RIO3-YR4	24VDC/2A 240VAC/2A 4 channel relay module

High Function Modules

RIO3-CU24L	2-channel, 1-phase counter module 24V DC, 100kHz
RIO3-RS232	1-channel, RS232 ASCII Communication module
RIO3-RS485	1-channel, RS485 ASCII Communication module
RIO3-PWM2	2-channel, PWM Output, 0,5A, 24VDC
RIO3-SMD	2-Phase Bipolar Stepping Motor Driver, 24Vdc/1A
RIO3-PO2	2-channel, Pulse Output, 0,5A, 24VDC



Analog Input Modules

RIO3-LDC2	2-channel Load Cell, Strain Guage, -150~150mV, 24Bits
RIO3-AX4I	4-channel 20 mA current analog input module, 12 Bit
RIO3-AXH4I	4-channel 20 mA current analog input module, 16 Bit
RIO3-AX8I	8-channel 20 mA current analog input module, 12 Bit
RIO3-AXH8I	8-channel 20 mA current analog input module, 16 Bit
RIO3-AX16IC	16-channel 20 mA current analog input module, 12 Bit, connector type
RIO3-AX16IT	16-channel 20 mA current analog input module, 12 Bit, terminal block
RIO3-AX4V	4-channel 0-10V voltage analog input module, 12 Bit
RIO3-AXH4V	4-channel 0-10V voltage analog input module, 16 Bit
RIO3-AX8V	8-channel 0-10V voltage analog input module, 12 Bit
RIO3-AXH8V	8-channel 0-10V voltage analog input module, 16 Bit
RIO3-AX16VC	16-channel 0-10V voltage analog input module, 12 Bit, connector type
RIO3-AX16VT	16-channel 0-10V voltage analog input module, 12 Bit, terminal block
RIO3-RTD4T	4-channel RTD input module, terminal block
RIO3-RTD8C	8-channel RTD input module, connector type
RIO3-TC4T	4-channel isolated thermocouple module, terminal block
RIO3-E3AC	3-Phase, AC Measurement, Lx-Ly 500Vac/1A

Analog Output Modules

RIO3-AY4I	4-channel 4-20 mA current analog output module, 12 Bit
RIO3-AYH4I	4-channel 4-20 mA current analog output module, 16 Bit
RIO3-AY8I	8-channel 4-20 mA current analog output module, 12 Bit
RIO3-AY4V	4-channel 0-10V voltage analog output module, 12 Bit
RIO3-AYH4V	4-channel 0-10V voltage analog output module, 16 Bit
RIO3-AY8V	8-channel 0-10V voltage analog output module, 12 Bit
RIO3-AY16VC	16-channel 0-10V voltage analog output module, 12 Bit, connector type
RIO3-AY16VT	16-channel 0-10V voltage analog output module, 12 Bit, terminal block

Power Supply Modules & Accessories

RIO3-SHD	Shield Module
RIO3-0VDC	Common 0V DC
RIO3-24VDC	Common 24V DC
RIO3-VDC	Common 0V/24V DC
RIO3-PSD	Expansion Power supply, Input 24V DC, Output 1,0A/5V
RIO3-PS	Field distributor 5V, 24V, 48V DC, 110V, 230V AC
RIO3-END	HX-RIO3 End cover, 7pcs.
RIO3-RTB10	HX-RIO3 10pole terminal block, 14pcs.
RIO3-RTB18	HX-RIO3 18pole terminal block, 12pcs.

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