

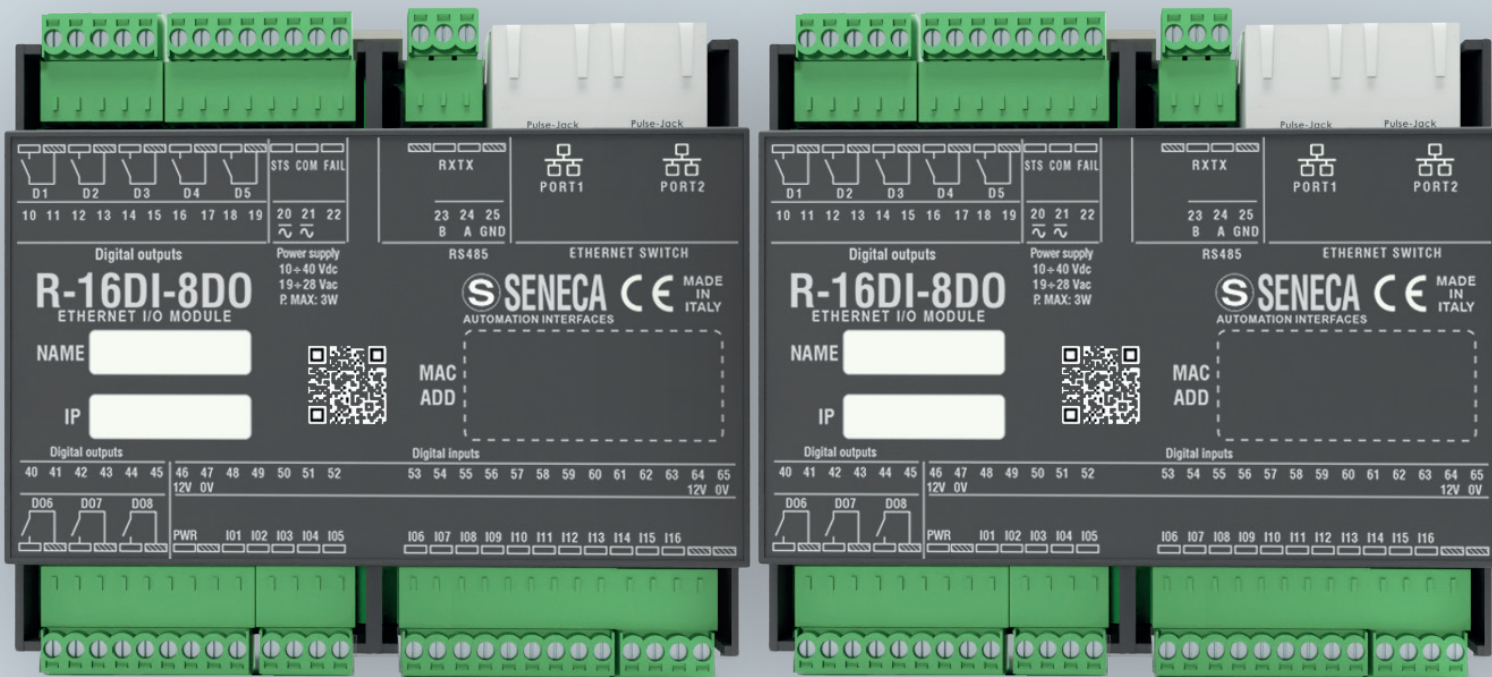
# I/O

## R-LINE I/O MODULES

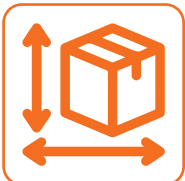


## R-LINE

R-Line I/O modules are devices designed for flexible wiring needs, small installation spaces, high I/O density with integrated ModBUS / Ethernet / Profinet IO communication. Configuration can be done through dedicated software, web server with HTML5 support and DIP-switches. Profinet IO versions provide configuration via softPLC CODESYS and Siemens environment TiA Portal/ Simatic Step7. Powering external sensors and equipped with isolation between inputs, outputs and other circuits up to 1,500 Vac, R-Line modules with 2 Ethernet ports can be daisy chained connected with fault-bypass function to ensure Ethernet connection even if one module in the chain fails.



### GENERAL HIGHLIGHTS



**FLEXIBLE AND SPACE SAVING APPLICATIONS**



**I/O HIGH DENSITY**



**BUILT-IN NETWORKING**



**DAISY CHAIN (2 ETHERNET PORTS VERSIONS)**



**FAULT-BYPASS (2 ETHERNET PORTS VERSIONS)**



**INDUSTRIAL RUGGEDNESS**

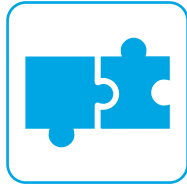
## MODBUS / ETHERNET VERSIONS



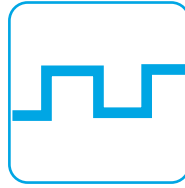
**DUAL  
COMMUNICATION  
PROTOCOL**



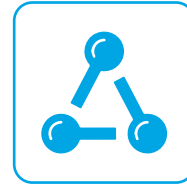
**CONFIGURATION  
THROUGH WEB  
SERVER**



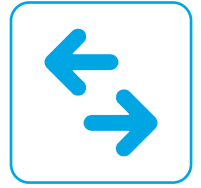
**HARDWARE  
INTEGRATION**



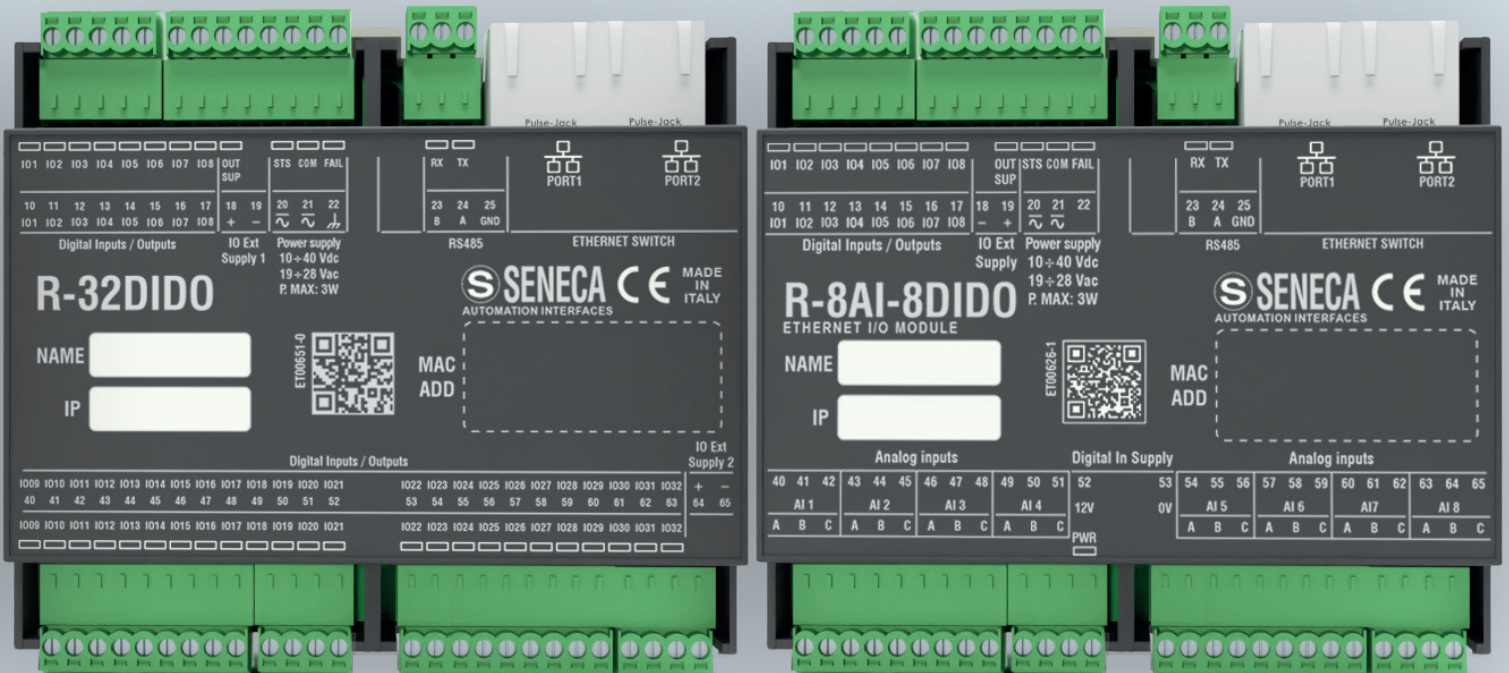
**RETENTION  
COUNTERS  
@6KHZ, 32BITS**



**I/O  
MIRRORING-P2P**



**MODBUS  
PASS-THROUGH**



## PROFINET IO VERSIONS



**PROFINET IO  
REAL-TIME  
CLASS1**



**CONFIGURATION  
THROUGH TIA  
PORTAL**



**CONFIGURATION  
THROUGH  
CODESYS**



**SHORT SCAN  
TIME**



**MACHINE  
AUTOMATION**

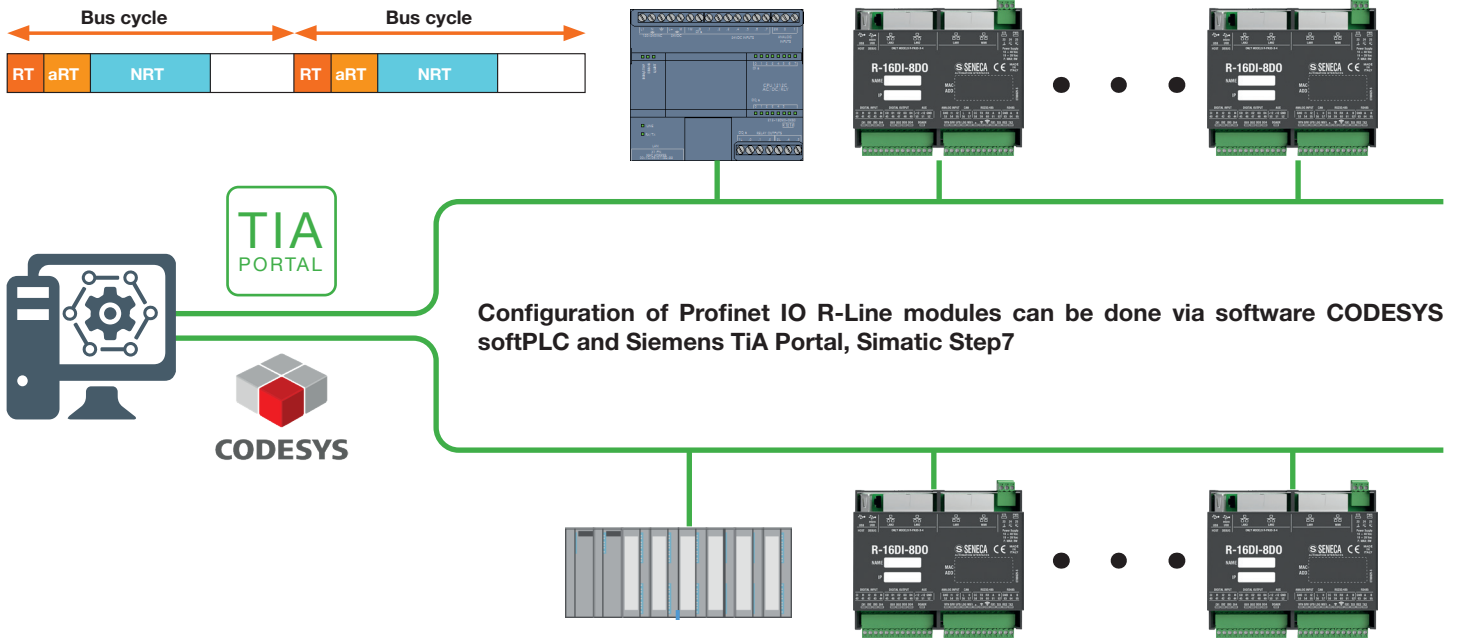


**DECENTRALIZED  
PERIPHERAL  
SYSTEM**

## PROFINET IO MODULES

### RT Class 1

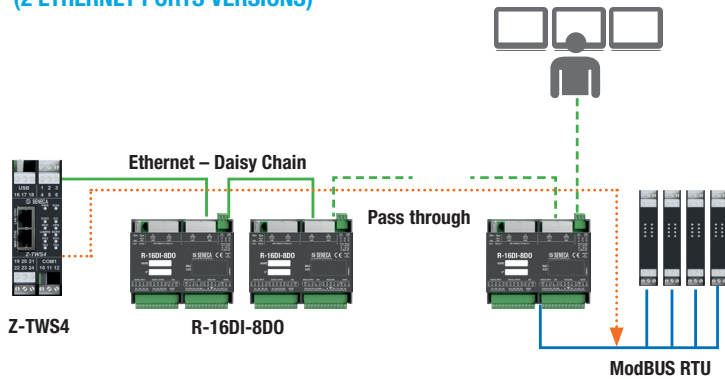
R-Line modules support Profinet IO Class 1 (RT), a variant in which the various devices are not synchronized and each operates with its own cycle time. At the beginning, cyclic RT data is transmitted, followed by acyclic RT data, such as alarms. At the end, a reserved portion of bandwidth for non-real-time communication that can coexist on the same physical network (e.g., TCP/IP-based). In class 1, we attempt to achieve isochrony in a software manner, relying on Ethernet priorities, with Profinet packets defined as priority 6 and managed by standard switches.



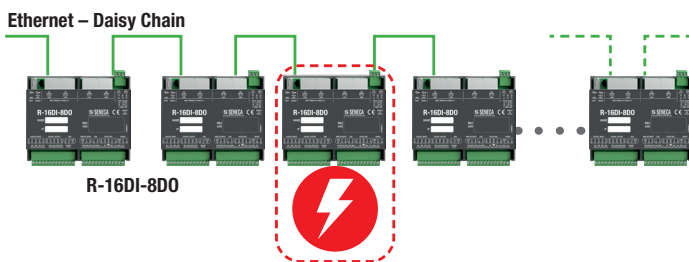
## CONNECTION AND ARCHITECTURES EXAMPLES

### ETHERNET / MODBUS MODULES

#### ETHERNET DAISY CHAIN, MODBUS PASS-THROUGH (2 ETHERNET PORTS VERSIONS)



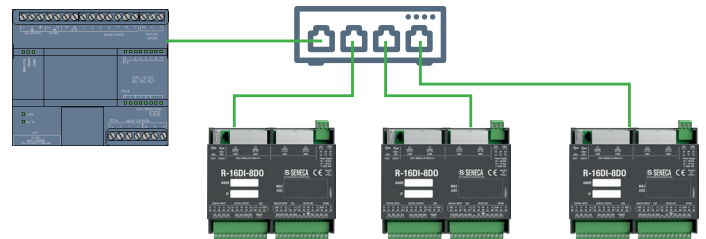
#### FAULT BY-PASS (2 ETHERNET PORTS VERSIONS)



Ethernet connection and data transmission active even in case of failure or power failure of a module in the chain. In this way, availability and continuity of service are guaranteed

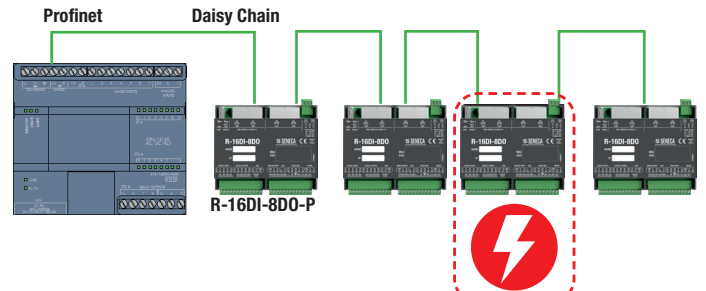
### PROFINET IO MODULES

#### STAR ARCHITECTURE EXAMPLE (WITH SWITCH)




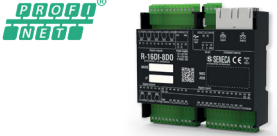


Connecting communication nodes to a switch with multiple PROFINET ports automatically it's created a network topology with a star structure thanks to which the entire network does not fail if a single device fails.

#### DAISY CHAIN ARCHITECTURE EXAMPLE (WITH LAN FAULT BY-PASS) (2 ETHERNET PORTS VERSIONS)





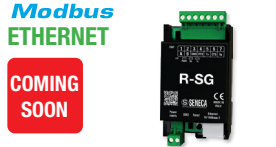

Ethernet connection and data transmission active even in case of failure or lack of power supply of a module in the chain. This ensures availability and continuity of service.

# DIGITAL IO MODULES

	R-16DI-8DO	R-16DI-8DO-P	R-32DIDO	R-32DIDO-P
	 <p><b>Modbus ETHERNET</b></p>	 <p><b>PROFINET</b></p>	 <p><b>Modbus ETHERNET</b></p>	 <p><b>PROFINET</b></p>
	16-CH digital inputs / 8-CH digital relay outputs Modbus TCP-IP / Modbus RTU module	16-CH digital inputs / 8-CH digital relay outputs Profinet IO module	32-CH digital inputs/outputs Modbus TCP-IP / Modbus RTU module	32-CH digital input/output Modbus Profinet IO module

GENERAL DATA				
Power supply	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac
Max power consumption	3 W	3 W	3 W	3 W
Max Isolation	1.5 kVac (3 points)	1.5 kVac (3 points)	1.5 kVac (3 points)	1.5 kVac (3 points)
Status indicators	Power supply Status Inputs/Outputs STS (IP address / DHCP) RX / TX (Receive / transmit data over RS485) Ethernet TRF / LNK (Transit packets / Ethernet connection)	Power supply Status Inputs/Outputs STS (IP address / DHCP) Profinet IO Communication	Power supply Status Inputs/Outputs STS (IP address / DHCP) RX / TX (Receive / transmit data over RS485) Ethernet TRF / LNK (Transit packets / Ethernet connection)	Power supply Status Inputs/Outputs STS (IP address / DHCP) Profinet IO Communication
Protection degree	IP20	IP20	IP20	IP20
Operating temperature	-25..+65°C	-25..+65°C	-25..+65°C	-25..+65°C
Dimension (LxHxP)	106 x 90 x 32 mm	106 x 90 x 32 mm	106 x 90 x 32 mm	106 x 90 x 32 mm
Weight	170 g	170 g	170 g	170 g
Case	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black
Connections	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors
Mounting	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted
Programming	EASY SETUP2 Configurator Integrated Web Server	CoDeSys TIA Portal	EASY SETUP2 Configurator Integrated Web Server	CoDeSys TIA Portal
Special Functions	Dual Ethernet Daisy Chain connection LAN fault bypass (active connection between Ethernet ports in case of power failure) Max 32 Peer to Peer Rules (Mirror I/O) - no Master required Counters with frequency measurement, TON, TOFF, Period Modbus Passthrough (TCP-IP to RS485) IP, MAC, firmware identification and configuration via SDD tool FRAM for counter backup	Dual Ethernet Daisy Chain Connection LAN fault bypass	Dual Ethernet Daisy Chain connection LAN fault bypass (active connection between Ethernet ports in case of power failure) Max 32 Peer to Peer Rules (Mirror I/O) - no Master required Counters with frequency measurement, TON, TOFF, Period Modbus Passthrough (TCP-IP to RS485) IP, MAC, firmware identification and configuration via SDD tool FRAM for counter backup	Dual Ethernet Daisy Chain Connection LAN fault bypass
Data Memory	FRAM for counter backup		FRAM for counter backup	-
COMMUNICATION				
Interfaces	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45 Nr.1 RS485 port on M23-M24-M25 terminals Nr.1 Micro USB (programming)	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45 Nr.1 RS485 port on M23-M24-M25 terminals Nr.1 Micro USB (programming)	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45
Speed	Up to 115,200 bps (RS485) / 100 Mbps (TCP-IP)	-	Up to 115,200 bps (RS485) / 100 Mbps (TCP-IP)	-
Protocols	ModBUS RTU, ModBUS TCP-IP, http	Profinet IO	ModBUS RTU, ModBUS TCP-IP, http	Profinet IO
Cable for Ethernet communication between devices	CAT5 or CAT5e unshielded	CAT5 or CAT5e unshielded cable	CAT5 or CAT5e unshielded	CAT5 or CAT5e unshielded cable
ModBUS communication	Up to 128 nodes without repeater and max speed 115 kbps	-	Up to 128 nodes without repeater and max speed 115 kbps	-
INPUT DATA				
Number of Channels	16 Digital	16 Digital	-	-
Type and Range	PNP with internal/external power supply, NPN with internal/external power supply. Internal; Off/On threshold: <8V; >9V	PNP with internal/external power supply, NPN with internal/external power supply. Internal; Off/On threshold: <8V; >9V	-	-
Max. frequency	5 kHz, 32-bit retentive counters	-	50 Hz, 32-bit retentive counters	-
Current consumption	2.25 mA	2.25 mA	-	-
Compliance	IEC 6113-2 Type 1 & 3	IEC 6113-2 Type 1 & 3	-	-
OUTPUT DATA				
Number of Channels	8 Digital, isolated from each other	8 Digital, isolated from each other	-	-
Type	SPST contact relays	SPST contact relays	-	-
Voltage / Current max	30 Vac/dc / 1 A	30 Vac/dc / 1 A	-	-
Response Time	20 ms (P2P)	20 ms (P2P)	-	-
Contacts duration	5*106 op. mec. / 105 op. with load	5*106 op. mec. / 105 op. with load	-	-
INPUT / OUTPUT DATA				
Number of Channels	-	-	32 configurable digital inputs/outputs	32 configurable digital inputs/outputs
Type and Range	-	-	Inputs ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; voltage/current max: 0.2 A / 24 V	Inputs ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; voltage/current max: 0.2 A / 24 V
STANDARD				
Approvals	CE	CE	CE	CE

## ANALOG IO MODULES

	R-6RTD-8DIDO	R-6RTD-8DIDO-P	R-SG	R-SG-P
	 <p><b>Modbus ETHERNET</b> <b>COMING SOON</b></p> <p>6-CH RTD inputs + 8-CH digital inputs/ outputs Modbus TCP-IP / Modbus RTU module</p>	 <p><b>PROFINET</b> <b>COMING SOON</b></p> <p>6-CH RTD input Profinet IO module</p>	 <p><b>Modbus ETHERNET</b> <b>COMING SOON</b></p> <p>Strain gauge converter Modbus TCP-IP / Modbus RTU module</p>	 <p><b>PROFINET</b> <b>COMING SOON</b></p> <p>Strain gauge converter Profinet IO module</p>
<b>GENERAL DATA</b>				
Power supply	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac
Max power consumption	3 W	3 W	3 W	3 W
Max Isolation	1.5 kVac (3 points)	1.5 kVac (3 points)	1.5 kVac (3 points)	1.5 kVac (3 points)
Status indicators	Power supply Status Inputs/Outputs STS (IP address / DHCP) RX / TX (Receive / transmit data over RS485) Ethernet TRF / LNK (Transit packets / Ethernet connection)	Power supply Status Inputs/Outputs STS (IP address / DHCP) Profinet IO Communication	Power supply Status Inputs/Outputs STS (IP address / DHCP) RX / TX (Receive / transmit data over RS485) Ethernet TRF / LNK (Transit packets / Ethernet connection)	Power supply Status Inputs/Outputs STS (IP address / DHCP) Profinet IO Communication
Protection degree	IP20	IP20	IP20	IP20
Operating temperature	-25..+65°C	-25..+65°C	-25..+65°C	-25..+65°C
Dimension (LxHxP)	106 x 90 x 32 mm	106 x 90 x 32 mm	106 x 90 x 32 mm	106 x 90 x 32 mm
Weight	170 g	170 g	170 g	170 g
Case	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black
Connections	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors
Mounting	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted
Programming	EASY SETUP2 Configurator Integrated Web Server	CoDeSys TIA Portal	EASY SETUP2 Configurator Integrated Web Server	CoDeSys TIA Portal
Special Functions	Dual Ethernet Daisy Chain connection LAN fault bypass (active connection between Ethernet ports in case of power failure) Max 32 Peer to Peer Rules (Mirror I/O) - no Master required Counters with frequency measurement, TON, TOFF, Period Modbus Passthrough (TCP-IP to RS485) IP, MAC, firmware identification and configuration via SDD tool FRAM for counter backup	Dual Ethernet Daisy Chain Connection LAN fault bypass	Dual Ethernet Daisy Chain connection LAN fault bypass (active connection between Ethernet ports in case of power failure) Max 32 Peer to Peer Rules (Mirror I/O) - no Master required Counters with frequency measurement, TON, TOFF, Period Modbus Passthrough (TCP-IP to RS485) IP, MAC, firmware identification and configuration via SDD tool FRAM for counter backup	Dual Ethernet Daisy Chain Connection LAN fault bypass
Data Memory	FRAM for counter backup		FRAM for counter backup	-
<b>COMMUNICATION</b>				
Interfaces	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45 Nr.1 RS485 port on M23-M24-M25 terminals Nr.1 Micro USB (programming)	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45 Nr.1 RS485 port on M23-M24-M25 terminals Nr.1 Micro USB (programming)	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45
Speed	Up to 115,200 bps (RS485) / 100 Mbps (TCP-IP)	-	Up to 115,200 bps (RS485) / 100 Mbps (TCP-IP)	-
Protocols	ModBUS RTU, ModBUS TCP-IP, http	Profinet IO	ModBUS RTU, ModBUS TCP-IP, http	Profinet IO
Cable for Ethernet communication between devices	CAT5 or CAT5e unshielded	CAT5 or CAT5e unshielded cable	CAT5 or CAT5e unshielded	CAT5 or CAT5e unshielded cable
ModBUS communication	Up to 128 nodes without repeater and max speed 115 kbps	-	Up to 128 nodes without repeater and max speed 115 kbps	-
<b>INPUT DATA</b>				
Number of Channels	6 Analog	6 Analog	1 Analog	1 Analog
Type and Range	RTD (2,3,4-wire ohmmeter) Pt100: -200..+650°C (f.s. 330 Ω) Pt500: -200..+750°C (f.s. 1.800 Ω) Pt1000: -200..+210°C (f.s. 1.800 Ω) Ni100: -60..+250°C (f.s. 330 Ω)	RTD (2,3,4-wire ohmmeter) Pt100: -200..+650°C (f.s. 330 Ω) Pt500: -200..+750°C (f.s. 1.800 Ω) Pt1000: -200..+210°C (f.s. 1.800 Ω) Ni100: -60..+250°C (f.s. 330 Ω)	Reading and powering up to 4 (350 Ω) or 8 (1,000 Ω) strain gauge load cells, 4- or 6-wire connection, 87 Ω equivalent impedance	Reading and powering up to 4 (350 Ω) or 8 (1,000 Ω) strain gauge load cells, 4- or 6-wire connection, 87 Ω equivalent impedance
Resolution	24 bit ADC	24 bit ADC	24 bit ADC	24 bit ADC
Accuracy			0,01%	0,01%
Thermal drift			25 ppm/K	25 ppm/K
<b>INPUT / OUTPUT DATA</b>				
Number of Channels	8 Digital inputs/outputs, individually configurable	8 Digital inputs/outputs, individually configurable	2 digital inputs/outputs	2 digital inputs/outputs
Type and Range	Inputs ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; voltage/current max: 0.2 A / 24 V	Inputs ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; voltage/current max: 0.2 A / 24 V	Tare calibration or weight threshold; Sensitivity 1 to 64 mV/V	Tare calibration or weight threshold; Sensitivity 1 to 64 mV/V
<b>STANDARD</b>				
Approvals	CE	CE	CE	CE

# MIXED IO MODULES

## R-8AI-8DIDO

Modbus  
ETHERNET

COMING  
SOON



8-CH analog inputs, 8-CH digital inputs/outputs Modbus TCP-IP / Modbus RTU module

## R-8AI-8DIDO-P

PROFINET

COMING  
SOON



8-CH analog inputs, 8-CH digital inputs/outputs Profinet IO module

### DATI GENERALI

Power supply	10..40 Vdc; 19..28 Vac	10..40 Vdc; 19..28 Vac
Max power consumption	3 W	3 W
Max Isolation	1.5 kVac (3 points)	1.5 kVac (3 points)
Status indicators	Power supply Status Inputs/Outputs STS (IP address / DHCP) RX / TX (Receive / transmit data over RS485) Ethernet TRF / LNK (Transit packets / Ethernet connection)	Power supply Status Inputs/Outputs STS (IP address / DHCP)
Protection degree	IP20	Profinet IO Communication IP20
Operating temperature	-25..+65°C	-25..+65°C
Dimension (lxhxp)	106 x 90 x 32 mm	106 x 90 x 32 mm
Weight	170 g	170 g
Case	Material PC / ABS self-extinguishing UL94-V0, color black	Material PC / ABS self-extinguishing UL94-V0, color black
Connections	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors	3.5 mm pitch terminals, Micro USB connector and dual RJ45 connectors
Mounting	DIN rail EN 60715, wall-mounted / panel-mounted	DIN rail EN 60715, wall-mounted / panel-mounted
Programming	EASY SETUP2 Configurator Integrated Web Server	CoDeSys TIA Portal
Special Functions	Dual Ethernet Daisy Chain connection LAN fault bypass (active connection between Ethernet ports in case of power failure) Max 32 Peer to Peer Rules (Mirror I/O) - no Master required Counters with frequency measurement, TON, TOFF, Period Modbus Passthrough (TCP-IP to RS485) IP, MAC, firmware identification and configuration via SDD tool FRAM for counter backup	Dual Ethernet Daisy Chain Connection LAN fault bypass
Data Memory		-

### COMMUNICATION

Interfaces	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45 Nr.1 RS485 port on M23-M24-M25 terminals Nr.1 Micro USB (programming)	Nr.1/2 Ethernet ports (with fault-bypass LAN function) 100 baseT on RJ45
Speed	Up to 115,200 bps (RS485) / 100 Mbps (TCP-IP)	-
Protocols	ModBUS RTU, ModBUS TCP-IP, http	Profinet IO
Cable for Ethernet communication between devices	CAT5 or CAT5e unshielded	CAT5 or CAT5e unshielded cable
ModBUS communication	Up to 128 nodes without repeater and max speed 115 kbps	-

### INPUT DATA

Number of Channels	8 Analog	8 Analog
Type and Range	Voltage: -30 V ÷ -30 V; -120m V ÷ +120 mV Current: -24 mA ÷ +24 mA Thermocouple: J, K, T, E, N, R, S, B, L RTD: Pt100: -200 °C ÷ +200 °C (1 channel only per cold junction comp.) 50 Hz, contatori ritentivi 32 bit	Voltage: -30 V ÷ -30 V; -120m V ÷ +120 mV Current: -24 mA ÷ +24 mA Thermocouple: J, K, T, E, N, R, S, B, L RTD: Pt100: -200 °C ÷ +200 °C (1 channel only per cold junction comp.) -
Max. frequency		
Resolution	24 bit ADC	24 bit ADC

### INPUT / OUTPUT DATA

Number of Channels	8 Digital Inputs/Outputs, individually configurable	8 Digital Inputs/Outputs, individually configurable
Type and Range	Inputs: ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; max. voltage/current: 0.2 A / 24 V	Inputs: ON/OFF: > 9 V; < 4 V; Vmax: 24 V MOSFET outputs, PNP; max. voltage/current: 0.2 A / 24 V

### STANDARD

Approvals	CE	CE
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### ORDER CODES

Code	Description
R-16DI-8DO-1	16-CH digital inputs, 8-CH digital outputs Modbus RTU / Modbus TCP-IP module (1 ETH)
R-16DI-8DO-1-P	16-CH digital inputs, 8-CH digital outputs Profinet module (1 ETH)
R-16DI-8DO-2	16-CH digital inputs, 8-CH digital outputs Modbus RTU / Modbus TCP-IP module (2 ETH)
R-16DI-8DO-2-P	16-CH digital inputs, 8-CH digital outputs Profinet module (2 ETH)
R-32DIDO-1	32-CH digital inputs/outputs Modbus RTU / TCP-IP module (1 ETH)
R-32DIDO-1-P	32-CH digital inputs/outputs Profinet IO module (1 ETH)
R-32DIDO	32-CH digital inputs/outputs Modbus RTU / TCP-IP module (2 ETH)
R-32DIDO-P	32-CH digital inputs/outputs Profinet IO module (2 ETH)
R-8AI-8DIDO-1	8-CH analog inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP module (1 ETH)

Code	Description
R-8AI-8DIDO-1-P	8-CH analog inputs, 8 digital inputs/outputs Profinet IO module (1 ETH)
R-8AI-8DIDO-2	8-CH analog inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP module (2 ETH)
R-8AI-8DIDO-2-P	8-CH analog inputs, 8 digital inputs/outputs Profinet IO module (2 ETH)
R-6RTD-8DIDO-1	6-CH RTD inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP module (1 ETH)
R-6RTD-8DIDO-1-P	6-CH RTD inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP Profinet IO module (1 ETH)
R-6RTD-8DIDO-2	6-CH RTD inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP module (2 ETH)
R-6RTD-8DIDO-2-P	6-CH RTD inputs, 8 digital inputs/outputs Modbus RTU / TCP-IP Profinet IO module (2 ETH)
R-SG	Modbus RTU / TCP-IP strain gauge converter module
R-SG-P	Profinet IO strain gauge converter module

## CONTACT AND INFORMATION

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Tech Support: [www.seneca.it/supporto](http://www.seneca.it/supporto)

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Sales Office: [sales@seneca.it](mailto:sales@seneca.it)  
Quality Management: [qualita@seneca.it](mailto:qualita@seneca.it)  
Product technical support: [support@seneca.it](mailto:support@seneca.it)

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