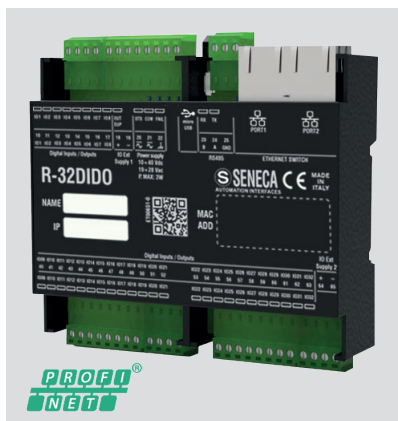


# R-32DIDO-P

## 32-CH digital inputs/outputs Profinet IO module



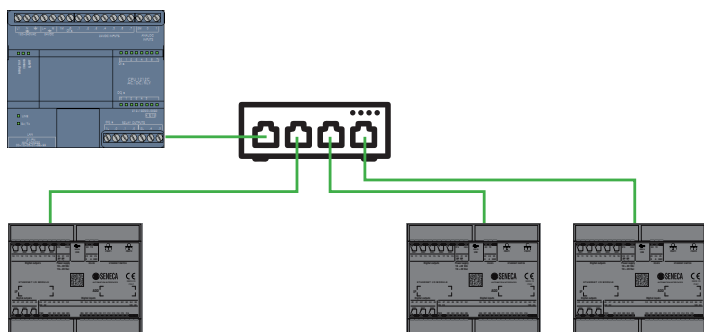
- No. 32 Digital Inputs/Outputs independently configurable
- Programming via CODESYS softPLC and TiA Portal / Step7
- Profinet IO Real-Time Class 1
- Multi-device connection in Ethernet daisy chain mode with Fault-bypass (active connection between the two Ethernet ports in case of power failure)
- Ideal for space saving applications with high IO density

R-32DIDO-P is a digital mixed module with dual 100 Mbps Ethernet ports. The module is designed for flexible wiring needs, small installation space, high I/O density applications with integrated Ethernet networking. R-32DIDO-P has 32 channels that can be individually set as digital inputs or outputs. The module is equipped with 1500 Vac isolation between inputs, outputs and other low voltage circuits. Configuration can be done via CODESYS softPLC software and TiA Portal/Simatic Step7 design environment. The R-32DIDO-P supports PROFINET IO communication and can be connected in Ethernet daisy-chain mode with fault-bypass to ensure Ethernet connection even if one module in the chain fails.

TECHNICAL DATA	
<b>GENERAL DATA</b>	
Power supply	10..40 Vdc; 19..28 Vac
Auxiliary voltage output	12 Vdc / 40 mA
Power consumption	3 W (max)
Isolation	1,5 kVac
Status indicators	Power supply Input / Output Status STS (IP address / DHCP) Profinet IO communication
Protection degree	IP20
Operating temperature	-25..+65°C
Dimension (wxhxd)	106 x 90 x 32 mm
Weight	170 g
Case	PC/ABS self-extinguishing UL94-V0, black color
Connections	Terminals 3.5 mm pitch, Micro USB connector and double RJ45 connector
Mounting	DIN-rail EN 60715, wall-mounted / panel-mounted
Programming	CoDeSys TIA Portal
Special functions	Dual Ethernet Daisy Chain connections LAN fault bypass
<b>COMMUNICATION</b>	
Interfaces	Nr.2 Ethernet ports (with LAN fault-bypass function) 100 baseT on RJ45
Protocol	Profinet IO
Cable for Ethernet	CAT5 or CAT5e unshielded
<b>INPUT/OUTPUT DATA</b>	
Nr. Channels	32 Digital Inputs/Outputs
Type	Inputs: voltage: ON threshold: > 9 V; OFF threshold: < 4 V; Vmax: 24 V; Impedance: 9 kΩ Outputs: MOSFET, PNP; Max. voltage/current: 0.2 A / 24 V
<b>STANDARD</b>	
Approvals	CE

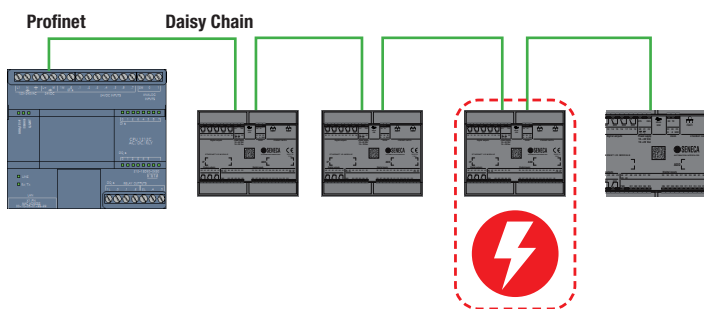
## CONNECTION EXAMPLES

### STAR ARCHITECTURE WITH SWITCH



By connecting the communication nodes to a switch with several PROFINET ports, a network topology with a star structure is automatically created, thanks to which the entire network doesn't fail if a single device fails.

### DAISY CHAIN ARCHITECTURE WITH FAULT BYPASS



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

ORDE CODES	
CODE	DESCRIPTION
R-32DIDO-P	32-CH digital inputs/outputs Profinet IO module



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