

ION8-1324

Model Sheet · October 2026

Multi-function combined remote I/O: 8 DI + 4 AI + 8 DO + 4 AO

I/O layout



Slot layout (schematic view)



DI: Digital input · DO: Digital output · AI: Analog input · AO: Analog output



Model code **ION8-1324**
Total channels **24**
Signal terminals **32**

Key capabilities

- 8 digital inputs
- 2 quadrature encoder inputs + 2 pulse counters
- Software pulse counter and frequency reading on every input
- Encoder and counter functions share the module's inputs; they do not add channels.
- 8 digital outputs
- 4 PWM channels with adjustable frequency and duty cycle
- Pulse/direction output
- The PWM channels are part of the module's 8 outputs; they are not additional outputs.
- 4 analog inputs
- Signal chain monitored and set from the web interface: filter, gain, scaling
- Per-unit calibration
- 4 analog outputs, 0–10 V
- Signal chain set from the same web interface
- Bluetooth LE 5; adaptive channel selection and adaptive transmit power
- Built-in web interface for monitoring, configuration and commissioning

Typical use in wire & cable

- Carrying inputs and outputs of the rotating section of stranding and buncher machines to the other side
- Motion and distance monitoring with an encoder, product and pulse counting
- PULSE/DIRECTION command to an external step drive, 0–10 V drive reference
- Optional: Modbus master / slave option for an absolute encoder

Connecting to a PLC

Mirroring

Inputs are passed to the outputs of the paired ION8 and its inputs to the outputs of this unit; no PLC needed.

PLC through ION8 EB

8 remote stations on one ION8 EB. Siemens S7 PUT/GET, Modbus TCP, EtherNet/IP, OPC UA; RS485 Modbus RTU master / slave.

ETH2BLE

An existing Ethernet and RS485 line is carried between two ION8 EB units through a wireless tunnel.

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