

Modicon Edge I/O NTS

The future-ready I/O system for data aggregation.

Edge I/O NTS provides flexibility allowing it to meet the needs of industrial IP20 I/O applications, from the simplest to the most demanding. Using open Ethernet protocols to deliver connectivity to a variety of architectures, Edge I/O NTS embeds the latest technologies to deliver better performance, availability, and cybersecurity.

Benefits

- Save time from pre-sales tools to operation, with simpler design and wiring, quicker start-up of new machines and processes for less time to market, and easier diagnostics for less unplanned downtime.
- Reduce costs, and unplanned downtime with robust design featuring environmentally hardened options, hot swap capabilities, integrated diagnostics and increased network cybersecurity.
- Flexibility is top of mind with the ability to customize I/O Islands, its compact design allows you to get more I/O modules and more functionality in less space.
- Ready for the data driven Industries of the future. Compliant with cybersecurity regulations so you can securely access and integrate the data you need to optimize efficiency, agility, sustainability, and profitability.

Robustness

- Designed, tested and validated for industrial environments
- Hardened version with conformal coating
- Exceed EMC standards
- Robust enough to reach Railway compliance

Availability

- Reduced risk of downtime
- Hot swappable
- Power supply redundancy
- Ring Network RSTP

Cybersecurity

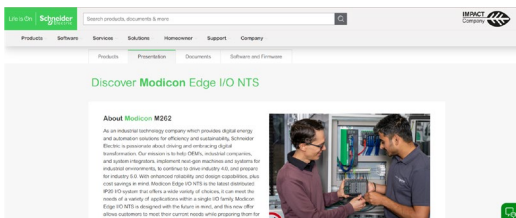
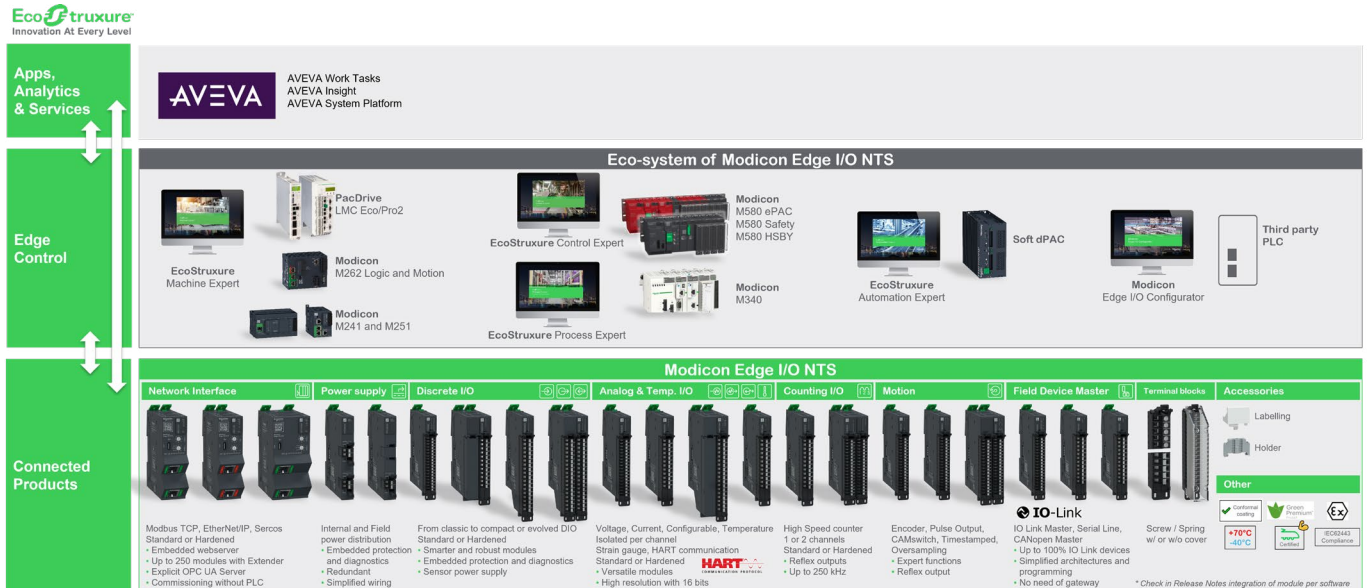
- Cybersecure by design (TPM)
- IEC62443-4-2 compliance
- Signed firmware
- Authenticated internal communication

Open and connected

- OPC UA Explicit
- Enable asset maintenance
- Predictive maintenance

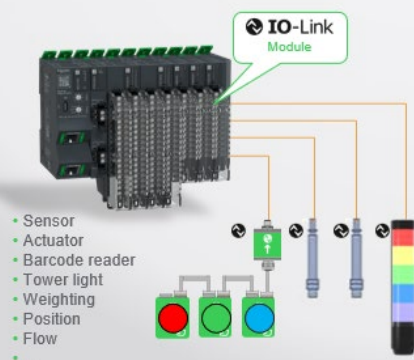
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Modicon Edge I/O NTS has been designed the future in mind. As example, the internal communication bus is based on OPC UA over TSN, latest technologies ensure the capacity to reach the current communication standard in term of performance availability and cybersecurity while supporting the readiness for the future. Cybersecurity is integrated by design, not a layer added on weak product, TMP (Trusted Platform Module) is integrated in Edge I/O NTS heads, allowing to reach higher level of cybersecurity.



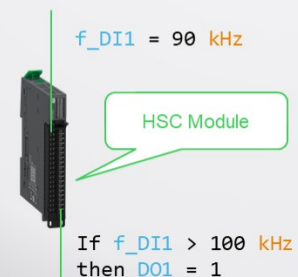
IO-Link Field Device Module

- IO-Link Master as simple as an I/O module
- Manage IODD files in the same interface as other module configuration
- Get data as other I/O modules
- Simplify architecture and data management
- Integrate up to 100+ IO-Link devices within one network node

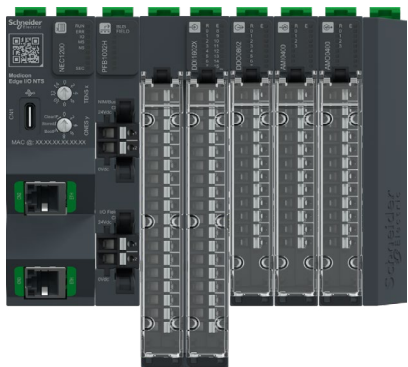


Counter with Reflex output

- Some High-Speed Counters or Encoders embed Reflex output
- Based on the measured value (Count, Frequency, Period,...), the Discrete output (DO) is activated if threshold is passed
- Very fast reaction (<25µs), whatever the network or CPU cycle time
- Optimize conception, Motion w/o Motion PLC



Discover easily Modicon Edge I/O NTS with Starter kit



The Starter kit is list of few references allowing to start and discover Modicon Edge I/O NTS.

Composed of a Head module, a power supply, a discrete input, a discrete output, an analog input and an analog output module.

With How-to videos discover how to make the first connection, manage first cybersecurity features, make configuration and use it inside EcoStruxure Machine or Control Expert.

Quantity	Part Number	Description
1	NTSNEC1200K	Network Interface Module + Base + Termination, EtherNet/IP, Modbus TCP, 100Mbps, 2 RJ45
1	NTSPFB1002HK	Power Supply Module + Base, 24V DC, Bus and Field, Hardened
2	NTSXTB02230H	Spring Terminal Block, 2 Points, 5mm Pitch, Use on Power Supply Module, Hardened
1	NTSDDI1602XHK	Discrete Input Module + Base, 16 In, 24V DC, Sink, 1/2/3 Wires, Hardened
2	NTSXTB18200XH	Spring Terminal Block, 18 Points, 5mm Pitch, Without Cover, Use on High Height Module (X), Hardened
1	NTSDDO0802K	Discrete Output Module + Base, 8 Out, 24V DC, 2A, Source, Protected, External Supply, 1 Wire
1	NTSXTB12201H	Spring Terminal Block, 12 Points, 5mm Pitch, With Cover, Use on Low Height Module, Hardened
1	NTSAMI0400K	Analog Input Module + Base, 4 In, Current, Voltage, 2 Wires
1	NTSXTB12201H	Spring Terminal Block, 12 Points, 5mm Pitch, With Cover, Use on Low Height Module, Hardened
1	NTSAMO0400K	Analog Output Module + Base, 4 Out, Current, Voltage
1	NTSXTB12201H	Spring Terminal Block, 12 Points, 5mm Pitch, With Cover, Use on Low Height Module, Hardened