Modicon M262

IIoT-ready logic/motion controller for performance machines

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Modicon

Discover Modicon

Industrial Edge control for IIoT

Modicon IIoT-native edge controllers manage complex interfaces across assets and devices or directly into the cloud, with embedded safety and cybersecurity. Modicon provides performance and scalability for a wide range of industrial applications up to high-performance multi-axis machines and high-available redundant processes.

Explore our offer

- Modicon HVAC Controllers
- Modicon PLC
- Modicon Motion Controllers
- Modicon PAC
- Modicon I/O
- Modicon Networking
- Modicon Power Supply
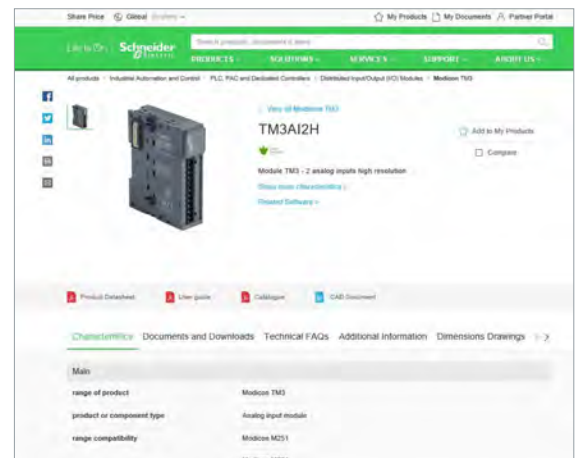- Modicon Wiring
- Modicon Safety

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Quick access to product information

Get technical information about your product

Each commercial reference presented in a catalog contains a hyperlink.
Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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- Embeded product selectors,360° pictures
- Optimized search by commercial references

> With just 3 clicks, you can access the Industrial Automation and Control catalogs, in both English and French
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> Find the right Training for your needs on our Global website
> Locate the training center with the selector tool, using this link

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Content

Modicon® M262
Logic/Motion controller – IIoT-ready for performance machines

To be competitive in today's digital era, machine builders must be innovative. Smart machines, those that are better connected, more flexible, more efficient, and safe, are enabling machine builders to innovate in ways never before possible.

EcoStruxure, Schneider Electric's open, IoT-enabled architecture and platform, offers powerful solutions for the digital era. As part of this, EcoStruxure Machine brings powerful opportunities for machine builders and OEMs, empowering them to offer smart machines and compete in the new, digital era.

EcoStruxure Machine brings together key technologies for product connectivity and edge control on premises, and cloud technologies to provide analytics and digital services. EcoStruxure Machine helps you bring more innovation and added value to your customers throughout the entire machine life cycle.

Innovation at Every Level for Machines is full systems across three layers:

– Connected products
Our connected products for measuring, actuating, device level monitoring, and control adhere to open standards to provide unmatched integration opportunities and flexibility

– Edge Control
We are IIoT-ready with a proven set of tested and validated reference architectures that enable the design of end-to-end open, connected, and interoperable systems based on industry standards. Ethernet and OPC UA facilitates IT/OT convergence meaning machine builders reap benefits from web interfaces and cloud.

– Apps, Analytics & Services
Seamless integration of machines to the IT layer allows the collection and aggregation of data ready for analysis – for machine bui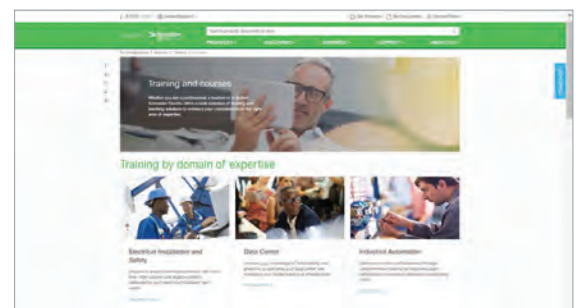lders and end users alike this means increased uptime and the ability to find information faster for more efficient operations and maintenance.

These levels are completely integrated from shop floor to top floor. And we have cloud offers and end-to-end cybersecurity wrapped around.

EcoStruxure Machine makes it easier for OEMs/ machine builders to offer their customers smarter machines. The advent of smart machines is driven by the changing needs of end users:
– Evolving workforce
– Reducing costs
– Dynamic markets
– Shorter life cycles
– Prioritizing safety and cybersecurity

EcoStruxure Machine provides one solution for the whole machine life cycle:
– With Smart Design & Engineering the time to market is reduced by up to 30% using our automated engineering and the simulation capabilities
– During Commissioning & Operation of the machine, resources such as energy, material and loss can be improved, and with seamless integration to the IT world efficiency can be improved by up to 40%
– Smart Maintenance & Services reduces the time for corrective actions up to 50%

EcoStruxure™ Machine
Innovation At Every Level

EcoStruxure™ Architecture

Packaging & Food & Beverage Machinery	Material Handing	Material Working	Hoisting	Pumping	HVAC

End-to-end Cybersecurity | **Cloud and/or On Premise**

Apps, Analytics & Services

AVEVA Software*
Asset Performance
Monitoring and Control

EcoStruxure Machine Advisor
EcoStruxure Secure Connect Advisor

EcoStruxure Augmented Operator Advisor

Edge Control
Magelis
IIoT Box and Industrial PC

PacDrive
Motion & Automation controllers

Modicon
Machine controllers

EcoStruxure
Machine Expert

EcoStruxure
Machine SCADA Expert

Connected products
Magelis
HMI

Harmony
Control & Signaling

Zelio
Relays

Sensors &
RFID

TeSys
Motor control

Altivar
Variable Speed
Drives

Preventa
Machine Safety

Lexium
Motion Control &
Robotics

Industrial
UPS

Compact
Circuit Breakers

* The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

Modicon M262
Logic/Motion controller – IIoT-ready for performance machines
Controllers for industrial machines

Applications	Type	Logic controller			Logic/Motion controller		Motion controller
	Specification	For hardwired architectures	For performance-demanding applications		For modular and distributed architectures	IIoT ready for performance machines	For automating machines/lines with 0 - 130 servo or robot axes
Performance		0.2 µs/inst	22 ns/inst		22 ns/inst	3...5 ns/inst	0.5...2 ns/inst
Memory		640 KB RAM, 2 MB Flash	64 MB RAM, 128 MB Flash		64 MB RAM, 128 MB Flash	192 MB RAM, 256 MB Flash	128 KB to 256 KB NV RAM 512 MB DDR2 to 1 GB DDR3L
Supply voltage		24 V ⎓ or 100...240 V ∿	24 V ⎓ or 100...240 V ∿		24 V ⎓	24 V ⎓	24 V ⎓
Communication fieldbus and networks	Embedded	■ EtherNet/IP ■ RS 232/RS 485 serial link ■ USB mini-B programming port	■ Ethernet ■ CANopen (master) and SAE J1939 ■ 2 serial links ■ USB mini-B programming port		■ EtherNet/IP ■ CANopen (master) and SAE J1939 ■ Serial link ■ USB mini-B programming port	■ EtherNet/IP ■ Sercos III ■ Modbus TCP ■ Serial link ■ USB mini-B programming port	■ EtherNet/IP ■ Sercos III ■ CANopen ■ Profibus ■ Profinet ■ EtherCAT
	Optional	■ 1 Serial Line	■ Ethernet ■ Profibus DP		■ Ethernet ■ Profibus DP	■ Ethernet ■ CANopen	■ CANopen ■ Profibus DP ■ RT-Ethernet
Embedded I/O	Input types	Up to 40 logic inputs Up 2 analog inputs	Up to 24 logic inputs		–	4 fast digital inputs	Up to 20 digital inputs Up to 16 touch probe inputs Up to 4 interrupt inputs Up to 2 analog inputs
	Output types	Up to 16 relay outputs Up to 16 tansistor outputs	Up to 16 tansistor outputs		–	4 fast digital outputs	Up to 16 digital outputs Up to 2 analog outputs
Synchronized axes		–	–		–	Up to 16 synchronized axes	Up to 130 synchronized axes
Configuration software		EcoStruxure Machine Expert-Basic (1)	EcoStruxure Machine Expert (2)		EcoStruxure Machine Expert (2)	EcoStruxure Machine Expert (2)	EcoStruxure Machine Expert (2)

Compatible expansion I/O module ranges (consult the catalog)

		Logic controller			Logic/Motion controller		Motion controller
	Local I/O	● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)		● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)	–
	Remote I/O	● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)		● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)	–
	Distributed I/O on Ethernet	● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN) ● Modicon TM5 (DIA3ED2131204EN)		● Modicon TM3 (DIA3ED2140109EN) ● Modicon TM5 (DIA3ED2131204EN)	● Modicon TM3 (DIA3ED2140109EN) ● Modicon TM5 (DIA3ED2131204EN)	● Modicon TM5 (DIA3ED2131204EN)
	Distributed I/O on CANopen	–	● Modicon TM3 (DIA3ED2140109EN)		● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN) ● Modicon TM5 (DIA3ED2131204EN) ● Modicon TM7 (DIA3ED2140405EN)	● Modicon TM3 (DIA3ED2140109EN) ● Modicon TM5 (DIA3ED2131204EN) ● Modicon TM7 (DIA3ED2140405EN)
	Distributed I/O on Sercos	–	–		–	● Modicon TM5 (DIA3ED2131204EN)	● Modicon TM5 (DIA3ED2131204EN)
	Distributed I/O on Modbus Serial Line	● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)		● Modicon TM3 (DIA3ED2140109EN)	● Modicon TM3 (DIA3ED2140109EN)	–
	⌂ Safety I/O	⌂ Modicon TM3 (DIA3ED2140109EN)	⌂ Modicon TM3 (DIA3ED2140109EN)		⌂ Modicon TM3 (DIA3ED2140109EN)	⌂ Modicon TM3 (DIA3ED2140109EN) ⌂ Modicon TM5 (DIA3ED2131204EN) ⌂ Modicon TM7 (DIA3ED2140405EN)	⌂ Modicon TM5 (DIA3ED2131204EN) ⌂ Modicon TM7 (DIA3ED2140405EN)
Controller range		**Modicon M221/M221 Book**	**Modicon M241**		**Modicon M251**	**Modicon M262**	**LMC Eco, LMC Pro2**
More details in catalog		DIA3ED2140106EN	DIA3ED2140107EN		DIA3ED2140108EN	DIA3ED2180503EN	DIA7ED2160303EN

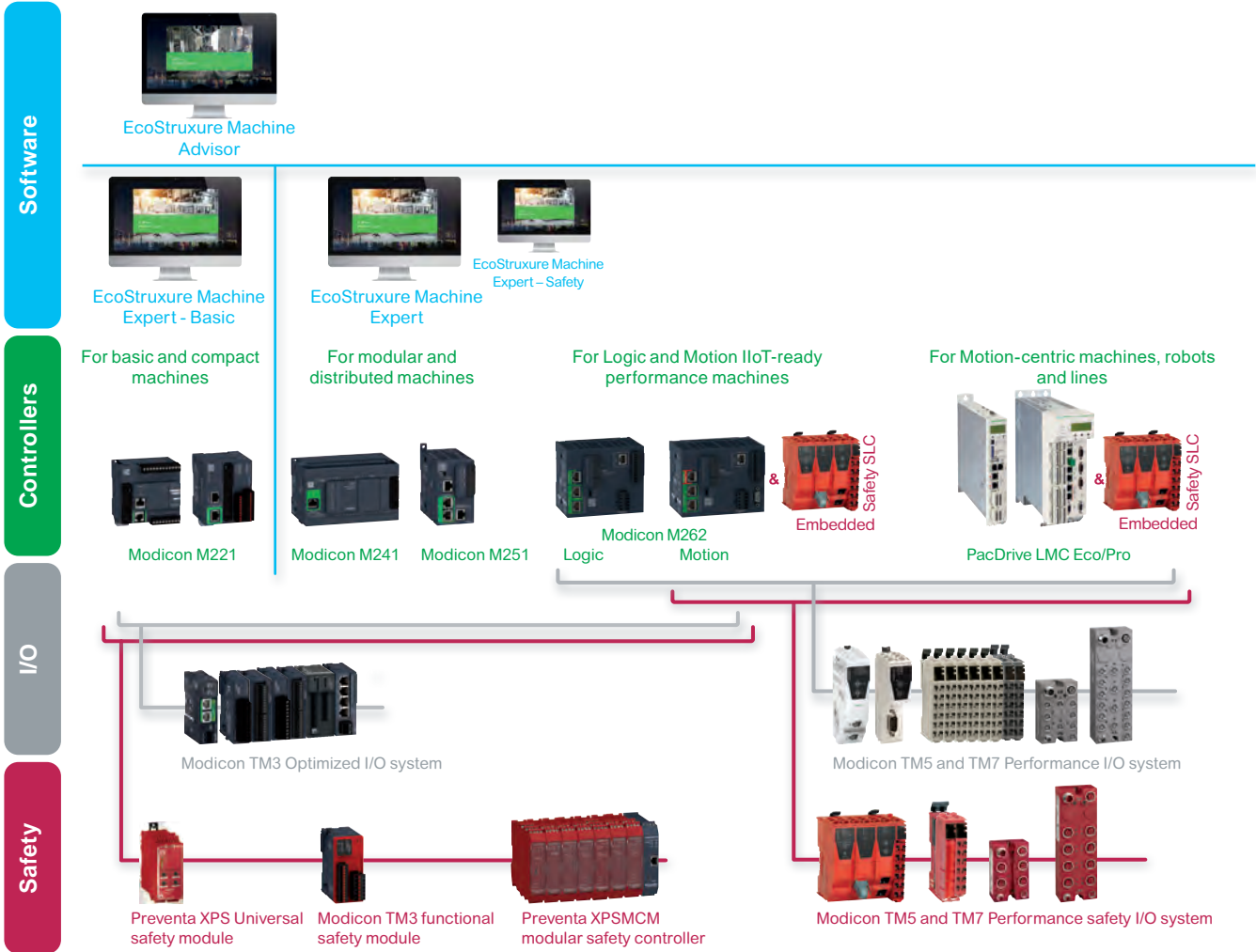*(1) Formerly named SoMachine Basic.*
(2) Formerly named SoMachine, EcoStruxure Machine Expert merges both former software ranges, SoMachine and SoMachine Motion.

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Machine Automation

Machine Automation

Software

EcoStruxure Machine Advisor

EcoStruxure Machine Expert - Basic

EcoStruxure Machine Expert

EcoStruxure Machine Expert – Safety

Controllers

For basic and compact machines

For modular and distributed machines

For Logic and Motion IIoT-ready performance machines

For Motion-centric machines, robots and lines

Modicon M221

Modicon M241   Modicon M251

Modicon M262
Logic   Motion

&   Safety SLC

Embedded

PacDrive LMC Eco/Pro

&   Safety SLC

Embedded

I/O

Modicon TM3 Optimized I/O system

Modicon TM5 and TM7 Performance I/O system

Safety

Preventa XPS Universal safety module

Modicon TM3 functional safety module

Preventa XPSMCM modular safety controller

Modicon TM5 and TM7 Performance safety I/O system

Machine control

The scalability and consistency of I/O ranges allow you to select the right offer depending on your needs

Embedded Safety provides holistic solutions to Modicon M262 and PacDrive LMC controllers, increasing overall safety demand in Machine Automation

All these devices are managed within a single software, EcoStruxure Machine Expert, a powerful and collaborative engineering environment

> From basic to motion- and robot-centric machines with the PacDrive 3 offer, Modicon controllers and solutions bring a consistent and scalable response to achieving flexibility, performance, productivity and digitization.

> Modicon TM3 Optimized I/O system for more compact and modular machines
> Modicon TM5 for more performance-demanding machines, with Modicon TM7 for harsh environments; Both Performance I/O ranges (Modicon TM5 and TM7) allow safety functions to be implemented using the Modicon TM5CSLC safety logic controller
> Preventa XPS Universal safety modules cover a wide range of safety functions, suitable for small applications with 4-5 safety functions, with diagnostic information provided to controllers via a single wire connection
> Modicon TM3 safety functional modules are suitable for small applications covering E-Stop functions and diagnostics via TM3 bus
> Preventa XPSMCM modular safety controllers are suitable for medium size applications with up to 20 safety functions and diagnostics via Modbus TCP, EtherNet/IP, EtherCAT, or Profinet

> **EcoStruxure Machine Expert – Safety** optional addon for programming safety logic controllers
> **EcoStruxure Machine Expert – Basic** software for programming Modicon M221 logic controllers: an intuitive standalone environment accessible to basic skilled technicians
> **EcoStruxure Machine Advisor** is a cloud-based services platform designed for machine builders to track machines in operation worldwide, monitor performance data and resolve exceptional events, while reducing support costs by up to 50%

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Modicon M262
Logic/Motion controller – IIoT-ready for performance machines
Machine Automation

Machine Automation	**Comprehensive Schneider offers for machine builders**

> Lexium servo drives, motors and robotics are designed to control applications ranging from a single independent axis up to high-performance synchronized multi-axis machines requiring high-speed and precise positioning and movements

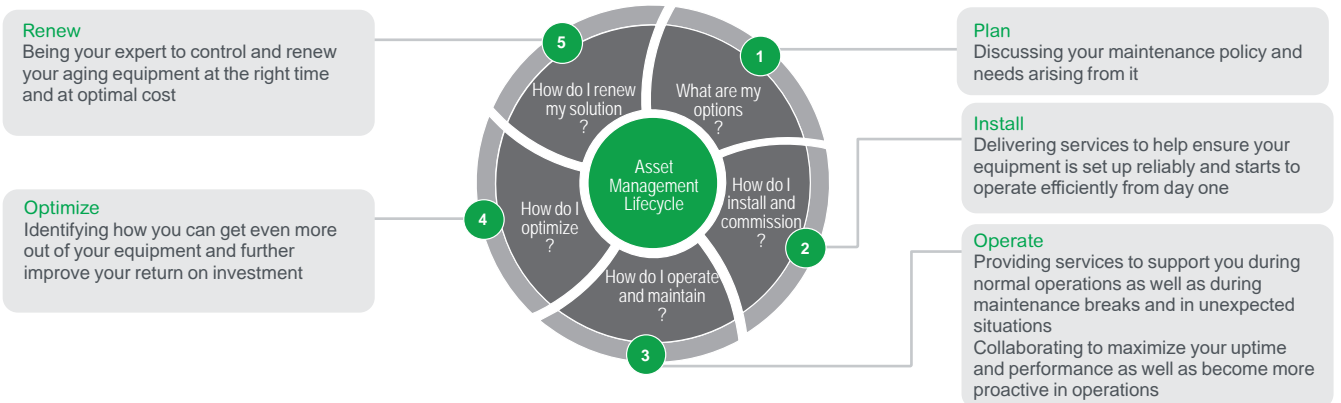| Robotics	Integrated drives	Servo Drives & Motors	Steppers Drives & Motors

> The Lexium offer is designed for a broad range of motion-centric machines in applications such as Packaging, Material Handling, Material Working, Food and Beverage and Electronics

> Schneider Electric has developed Tested Validated & Documented Architectures (TVDA) applicable for generic machine control applications as well as for dedicated segment applications such as Packaging, Material Working, Material Handling, Hoisting, Pumping, or generic Machine Control applications
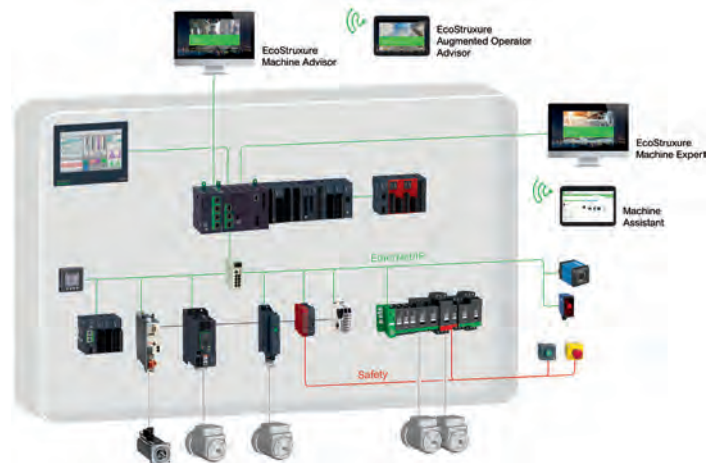
Choose Schneider Electric to help secure your investment and benefit from worldwide services at every step of your project

Renew
Being your expert to control and renew your aging equipment at the right time and at optimal cost

Optimize
Identifying how you can get even more out of your equipment and further improve your return on investment

Plan
Discussing your maintenance policy and needs arising from it

Install
Delivering services to help ensure your equipment is set up reliably and starts to operate efficiently from day one

Operate
Providing services to support you during normal operations as well as during maintenance breaks and in unexpected situations
Collaborating to maximize your uptime and performance as well as become more proactive in operations

Asset Management Lifecycle

5 How do I renew my solution ?
1 What are my options ?
4 How do I optimize ?
How do I install and commission ?
How do I operate and maintain ?
2
3

> From planning and inception to modernization, we help ensure optimal technical and business performance. Our field service engineers combine 30+ years of manufacturer-level experience with the latest technology to bring innovation to every level of our offer and every step of your project.

> Our machine control dedicated services empower you to maximize your business infrastructure and face increasingly stringent demands on productivity, safety, equipment availability and performance optimization.

Modicon M262
Logic/Motion controller – IIoT-ready for performance machines
General overview

Modicon M262, the IIoT-ready controller for logic and motion machines

As a Machine Builder, manufacturing machines with logic or motion control and moving into the Industry 4.0 era, you are looking for a controller with embedded cloud connectivity that offers cybersecurity capabilities and supports monitoring, analytics and predictive maintenance.
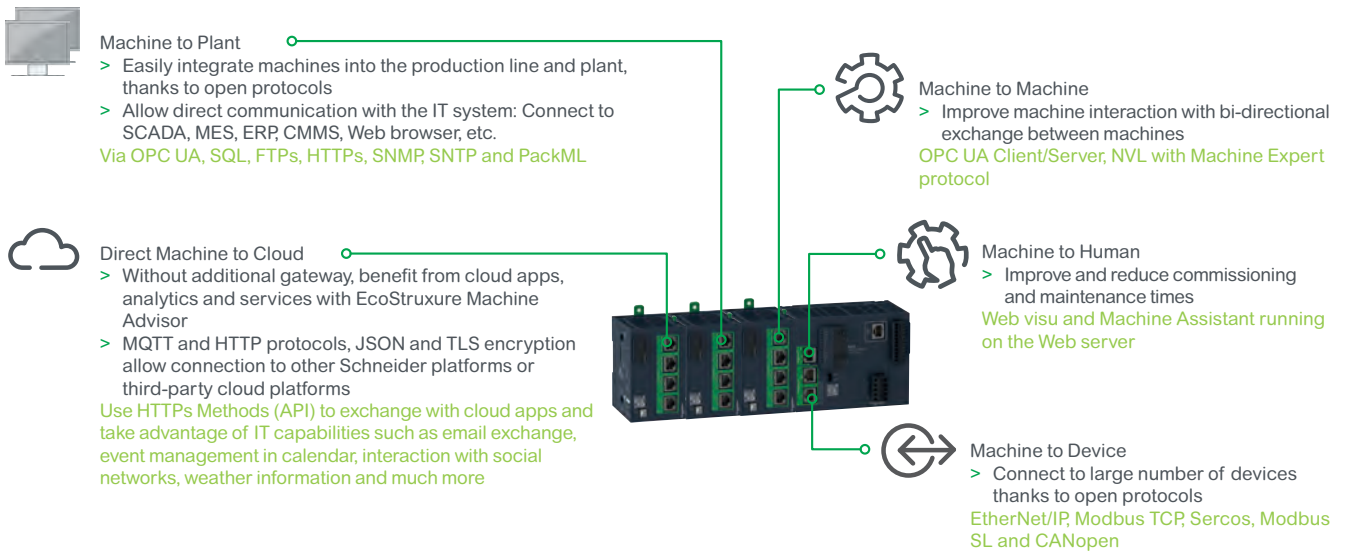
As the latest polyvalent controller for Logic and Motion with cloud protocols (MQTT(s), HTTP(s), JSON, OPC UA Client/Server) and encryption (TLS), the Modicon M262 is ready for you.

Modicon controllers are a key part of our EcoStruxure Machine that provides complete architectures from Connected Products, Edge Control to Apps, Analytics and services.

Modicon M262 controllers embed Industrial Internet of Things (IIoT) protocols and encryption to provide direct cloud connectivity and digital services.
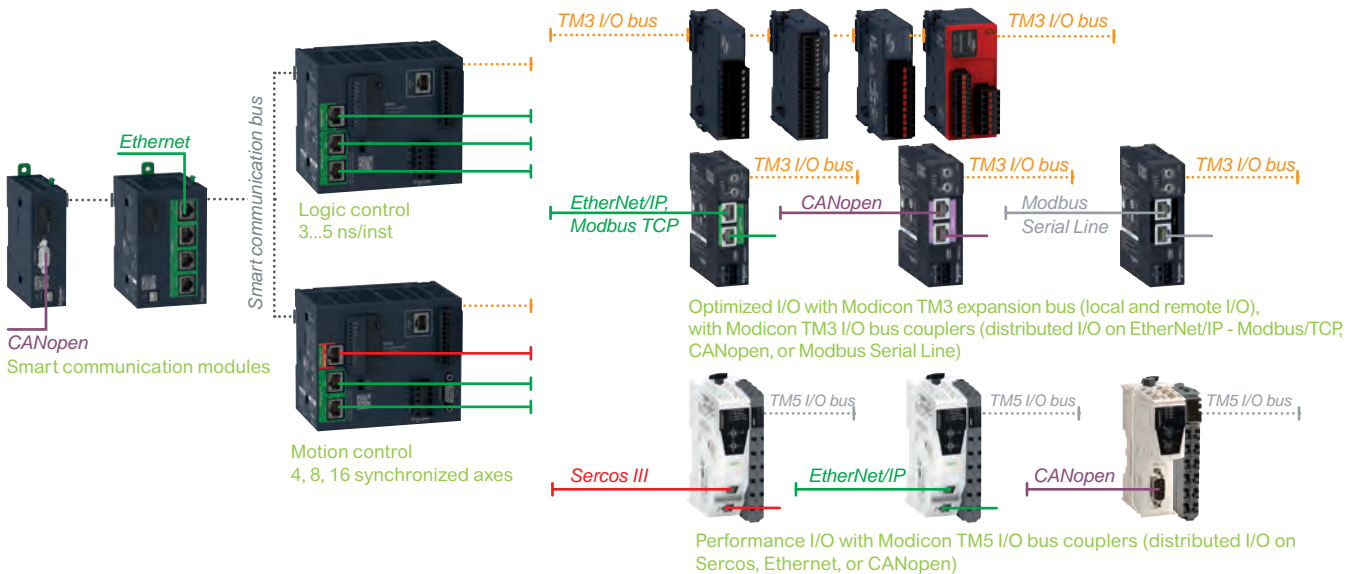
Digitization

Integrate your machine in any cloud and on-premise environment

Machine to Plant
> Easily integrate machines into the production line and plant, thanks to open protocols
> Allow direct communication with the IT system: Connect to SCADA, MES, ERP, CMMS, Web browser, etc.
Via OPC UA, SQL, FTPs, HTTPs, SNMP, SNTP and PackML

Direct Machine to Cloud
> Without additional gateway, benefit from cloud apps, analytics and services with EcoStruxure Machine Advisor
> MQTT and HTTP protocols, JSON and TLS encryption allow connection to other Schneider platforms or third-party cloud platforms
Use HTTPs Methods (API) to exchange with cloud apps and take advantage of IT capabilities such as email exchange, event management in calendar, interaction with social networks, weather information and much more

Machine to Machine
> Improve machine interaction with bi-directional exchange between machines
OPC UA Client/Server, NVL with Machine Expert protocol

Machine to Human
> Improve and reduce commissioning and maintenance times
Web visu and Machine Assistant running on the Web server

Machine to Device
> Connect to large number of devices thanks to open protocols
EtherNet/IP, Modbus TCP, Sercos, Modbus SL and CANopen

> Structured networking with up to 5 separate Ethernet ports (2 embedded in the Modicon M262 and up to 3 additional ports with TMSES4) to allow easy integration into your plant, production line, ERP, MES, SCADA with open protocols like OPC UA, PackML or SQL

Flexibility and scalability

TM3 I/O bus   *TM3 I/O bus*

Ethernet

Logic control
3...5 ns/inst

Smart communication bus

CANopen
Smart communication modules

EtherNet/IP, Modbus TCP   *TM3 I/O bus*

CANopen   *TM3 I/O bus*

Modbus Serial Line   *TM3 I/O bus*

Optimized I/O with Modicon TM3 expansion bus (local and remote I/O), with Modicon TM3 I/O bus couplers (distributed I/O on EtherNet/IP - Modbus/TCP, CANopen, or Modbus Serial Line)

Motion control
4, 8, 16 synchronized axes

TM5 I/O bus   *TM5 I/O bus*   *TM5 I/O bus*

Sercos III   *EtherNet/IP*   *CANopen*

Performance I/O with Modicon TM5 I/O bus couplers (distributed I/O on Sercos, Ethernet, or CANopen)

> Scalable performance - Manage logic applications, synchronized motion, embedded safety and cloud connectivity in one controller
> I/O system adjusted to your needs, Optimized (Modicon TM3) for just enough architecture, or Performance (Modicon TM5) with high resolution, hot swap capability, etc.

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Modicon M262, the IIoT-ready controller for logic and motion machines

Efficiency

Through smart engineering design

Modicon M262 Motion controller, Optimized local I/O with Modicon TM3

Modicon TM5 safety logic controller, Modicon TM5 Sercos interface module, Modicon TM5 safety I/O, Modicon TM7 safety I/O

Harmony ST6W using EcoStruxure Machine Expert software, for WebVisu service

Optimized I/O with Modicon TM3: Distributed I/O on Ethernet with TM3 I/O bus coupler

Sercos

EtherNet/IP (up to 6 devices)
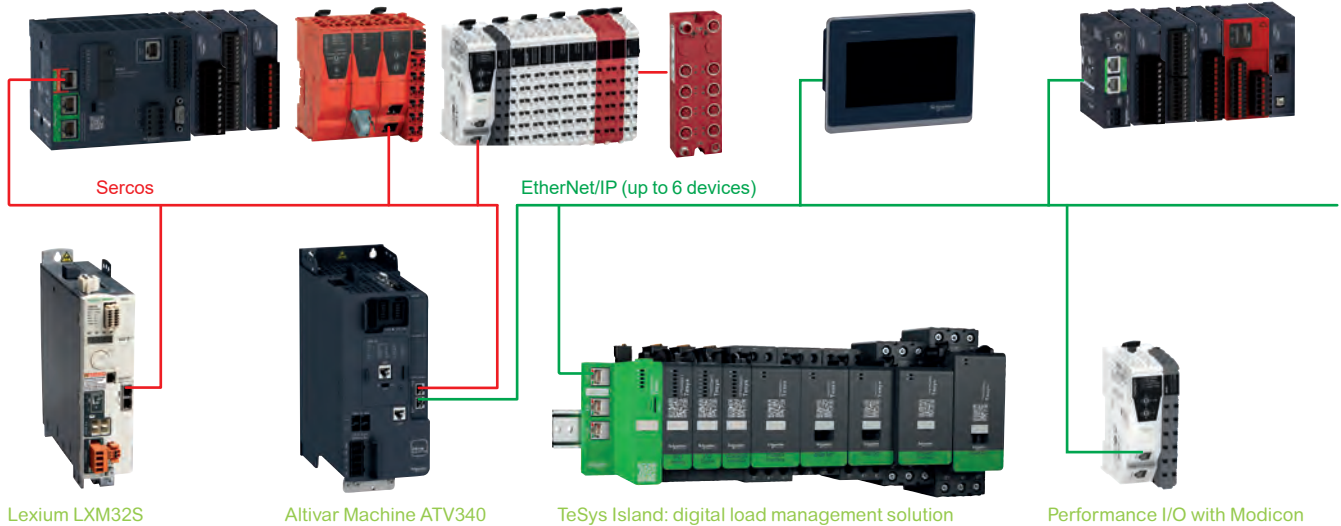
Lexium LXM32S

Altivar Machine ATV340

TeSys Island: digital load management solution

Performance I/O with Modicon TM5: Distributed I/O on Ethernet with TM5 interface module

> Benefit from real-time automation fieldbus with Sercos for fast motion control, safety functions and openess to other devices
> One cable simplifies the architecture and fieldbus wiring. Manage EtherNet/IP and Sercos devices on the same cable
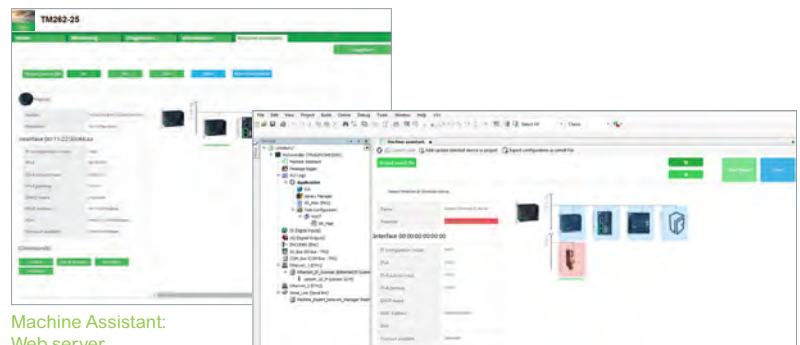
Machine Assistant: Web server

Machine Assistant: EcoStruxure Machine Expert

> Simplified commissioning and diagnostics without software installation – "Machine Assistant"

Protection

Embedded safety and security functions: Help to protect people, machines, data and the environment

&

> Meet safety regulations with embedded safety: Motion controller and safety logic controller

> Cybersecurity, including encrypted communications, network separation, Achilles certification, user access/rights management, etc.

> Green Premium certified, our ecolabel compliant with environmental regulations. Find more information on our website

Modicon M262
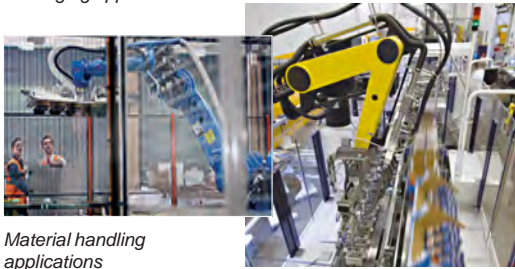## Logic/Motion controller – IIoT-ready for performance machines
Modicon M262 Logic/Motion controllers

Food & Beverage applications

Packaging applications

Material handling applications

Textile applications

Semiconductor

Hoisting applications

Presentation

The Modicon M262 Logic/Motion controller offer is designed for performance-demanding machines; M262 controllers are IIoT-ready (MQTT, HTTP, OPC UA, TLS, etc.) and combine logic, motion and safety control applications.
> TM262L●●● for the logic control of multiple input and output arrangements
> TM262M●●● for the motion control of up to 16 synchronized axes, embedding a safety control application according to SIL3

Targeted applications

Modicon M262 Logic/Motion controllers are the ideal solution for industrial control processes in many fields of application, including the following:
> Food & Beverage: From compact to modular – complete automation solutions for food and beverage machinery including robotics
> Packaging: Schneider Electric has automated more than 100,000 machines worldwide with benchmark Modicon controllers and PacDrive platforms
> Material handling: Complete solutions far beyond basic technologies - from logic, motion and drive controllers to cartesian and delta picker solutions
> Textile: Proven technology for automating high-speed processes in textile production
> Hoisting: Proven architectures according to EN ISO 13849-1 and technology-specific function blocks enhance productivity in industrial and construction cranes
> Semiconductor: A wide range of automation and digitization solutions enables machine builders to develop new machines and lines faster and with more flexibility
> General purpose: For machines requiring IIoT embedded connectivity or encrypted communication

Embedded I/O

> Modicon M262 Logic/Motion controllers embed 4 fast digital inputs and 4 fast digital outputs, connected to the controller via removable spring terminal blocks on the controller front face *(1)*:
- Input types:
  - Sink/Source, 24 VDC, 8.1 mA, filtered
  - Digital: Raise an event task in 20 μs on rising or falling edge or both, latch, capture position on encoder
- Output types:
  - Source, 24 VDC, 50 to 200 mA, 3 μs
  - Fallback
- All inputs and outputs have status LEDs.
> Modicon M262 Motion controllers (TM262M●●●) embed an encoder input (SSI or incremental)
  - 5 VDC or 24 VDC configurable power supply, 150 mA
  - SSI 100 or 200 kHz, 5 VDC

Extended I/O with modular I/O systems

> Modicon M262 Logic/Motion controllers can be combined with Modicon TM3, Modicon TM5 and Modicon TM7 offers, allowing:
- An increased number of I/O: with the Modicon TM3 expansion module offer, in local and remote I/O configurations
- Distributed I/O on communication networks:
  - Optimized distributed I/O islands on Ethernet, CANopen, Modbus Serial Line with Modicon TM3
  - Performance distributed I/O islands on Ethernet or Sercos III with Modicon TM5 and Modicon TM7

Equipment

Modicon M262 Logic/Motion controllers are equipped with:
- an integrated RTC
- a Run/Stop switch
- a NC alarm relay contact 24 VDC/2 A

(1) Removable spring terminal blocks are supplied with the controllers.

Modicon TM3
Expansion I/O modules for Modicon M221, M241, M251 and M262

Modicon TM5
High-Performance and Safe IP20 Modular I/O System

Modicon TM7
High-Performance and Safe IP67 distributed I/O System

DIA3ED2140109EN   DIA3ED2131204EN   DIA3ED2140405EN

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Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 Logic/Motion controllers

Performance

> The Modicon M262 Logic/Motion controllers embed a dual-core processor:
  - Core 1 is dedicated to manage program tasks and offers maximum resources for real-time execution of the application code.
  - Core 2 is dedicated to execute communication tasks, which then have no further impact on the application execution performance.
> They have a minimum cycle time of 500 µs, a 256 MB RAM memory that can store data and applications (32 MB for applications) and a 1 GB Flash memory for application and data backup. A SD card (up to 32 GB) can also be used in addition to embedded memories.
> Performance of Modicon M262 controllers: 3 to 5 ns/instruction

Certifications and standards

- Modicon M262 controllers meet the requirements of the following certifications:
  - $C\epsilon$, cULus HazLoc, RCM, EAC, Achilles L2, EU RO Mutual (Marine certification) *(1)*
- Modicon M262 controllers conform to the following standards:
  - UL 61010-1, -2-201
  - CSA C22.2 No. 61010-1, CSA C22.2 No. 61010-2-201, CSA C22.2 No. 213
  - ANSI/ISA 12-12-01
  - EN 61131-2

Environmental characteristics

- Ambient operating temperature:
  - Horizontal mounting: - 20…60 °C *(-4…140 °F)*
  - Vertical mounting: - 20…50 °C *(-4…122 °F)*
  - Flat mounting: - 20…45 °C *(-4…113 °F)*
- Storage temperature: - 40...85 °C *(- 40...185 °F)*
- Relative humidity: 5...95% (non-condensing)
- Operating altitude: 0...2000 m *(0...6,562 ft)*
- Storage altitude: 0...3000 m *(0...9,842 ft)*

Power supply characteristics

Modicon M262 controllers are powered with a non-isolated 24 V DC power supply and have built-in overload protection.
- Voltage limit: 20.4…. 28.8 V ⎓
- Immunity to micro-cuts (class PS-2): < 10 µs
- Max. consumption of controller during operation is 82 W

Programming

> EcoStruxure Machine Expert is the machine builder's solution software for developing, configuring and commissioning machine controllers such as Modicon M262 and the entire machine in a single software environment, including logic control, motion control, remote I/O systems, safety control, motor control, HMI design and related network automation functions.
> This software environment covers the entire engineering life-cycle with:
  - Collaborative team work and version management
  - IIoT and standard libraries integration
  - Automatic testing (ETEST) and simulation
  - Code quality control (Machine Code Analysis)
  - Deployment and commissioning
  - Diagnostics and remote services
> In addition, EcoStruxure Machine Expert interacts with various engineering tools via open interfaces.
  - IEC 61131-3 programming languages: Instruction List (IL), Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart/Grafcet (SFC), Structured Text (ST) and CFC (Continuous Function Chart)
  - Integrated fieldbus configurators
  - Expert diagnostic and debugging functions
  - Motion design, according to PLCopen Motion Control, as well as multiple capabilities for commissioning, maintenance and visualization

(1) Pending.

EtherNet/IP and Modbus/TCP devices

Logic/Motion controller	EtherNet/IP Max. number of devices	RPI (ms)	Modbus/TCP Max. number of devices	EtherNet/IP + Modbus/TCP Max. number of devices
TM262L10	64	40	64	96
TM262L20	64	20	64	128
TM262M15	64	40	64	96
TM262M25	64	20	64	128
TM262M35	64	20	64	128

Sercos, synchronized axes, motion and one-cable devices

Motion controller	No. of sync. axes	Sercos cycle time (ms)	Additional Sercos slaves	Total Sercos slaves	Additional EtherNet/IP slaves over Sercos	RPI (ms)
TM262M15	4	1	4	8	6	10
	4	2	12	16	6	10
	4	4	12	16	6	10
TM262M25	4	1	8	12	6	6
	8	2	8	16	6	6
	8	4	16	24	6	6
TM262M35	8	1	8	16	6	6
	16	2	8	24	6	6
	16	4	24	40	6	6

EcoStruxure Machine Expert software

DIA3ED2180701EN

Housing

> With compact dimensions, Modicon M262 Logic/Motion controllers optimize the size of wall-mounted and floor-standing control system enclosures.
  Format (w x d x h): 125 x 90 x 100 mm (*4.92 x 3.54 x 3.93 in.*)
> Modicon M262 Logic/Motion controllers can be mounted on DIN rail (⊥⌐) or panel *(1)*.
> A QR code, printed on the front face of controllers and smart communication modules, gives a link to the product's SE maintenance page and and its unique serial number (S/N).
> For easier identification in the field, the product's commercial reference is printed on the front of the controller.
> A slot for an industrial memory card is available on the controller's front face: SD card up to 2 GB or SDHC card up to 32 GB. **TMASD●** industrial SD memory cards are available for backing up and transferring applications, data logging and firmware updates.

Connecting a Modicon M262 controller to devices

> Connecting a PC to the USB Mini-B isolated port for programming (with Machine Expert, FTP, HTTP and Modbus protocols)
> Connecting of up to three smart communication modules via the smart communication bus, assembled by simple interlocking on the left-hand side of the controller. The smart communication bus embeds the power supply for the smart communication modules. Two types of smart communication module are available for CANopen and Ethernet connections.


1   **2**   **2**   **3**
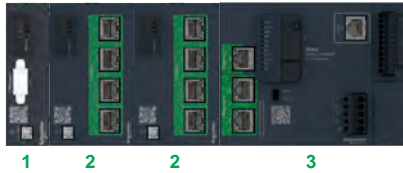
1   TMSCO1 CANopen smart communication module
2   TMSES4 Ethernet smart communication module
3   M262 Logic/Motion controller
Maximum installation: a maximum of one TMSCO1 with two TMSES4 or three TMSES4 smart communication modules is allowed. TMSCO1 is always the last module on the left. Alternatively, a maximum of three TMSES4 smart communication modules can be connected.

Connecting a Modicon M262 controller to the Modicon TM3 I/O system

> A TM3 I/O bus port located on the right-hand side of the Modicon M262 controller allows connection of any of the Modicon TM3 expansion modules for local or remote I/O configurations. Modicon TM3 can be also used in distributed architecture.
  - Local I/O: 7x TM3 expansion modules (max. configuration)
  - Remote I/O: + 7x TM3 remote modules (equals 14x TM3 modules: 7x local + 7x remote)
  - Distributed I/O: up to 64x TM3 I/O bus coupler (EtherNet/IP) and/or up to 32 x TM3 I/O bus coupler (Modbus/TCP) (2), allowing up to 14x TM3 I/O modules by bus coupler

Local I/O   *Remote I/O*

Distributed I/O   *Distributed I/O*
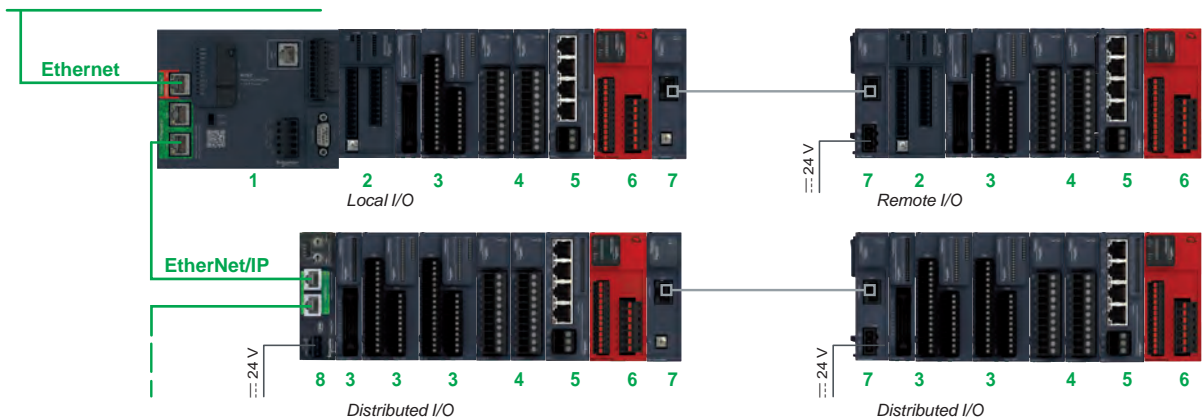
1   Modicon M262 Logic/Motion controller
2   TM3 Expert counter module (event management available on first two slots after M262 controller only)
3   TM3 Digital I/O modules
4   TM3 Analog I/O modules
5   TM3 Expert module for controlling TeSys motor starters
6   TM3 Functional safety modules
7   TM3 I/O bus expansion modules (transmitter and receiver) and bus expansion cable
8   TM3BCEIP bus coupler module (several bus coupler are allowed)

(1) For vertical or flat mounting, please consult our Customer Care Center.
(2) With TM262L10MESE8T and TM262M15MESS8T: 64x TM3 I/O bus coupler (EtherNet/IP) and up to 16x TM3 I/O bus coupler (Modbus/TCP). With TM262L20MESE8, TM262M25MESS8T and TM262M35MESS8T: 64x TM3 I/O bus coupler (EtherNet/IP) and up to 32x TM3 I/O bus coupler (Modbus/TCP).

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Schneider Electric

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 Logic/Motion controllers

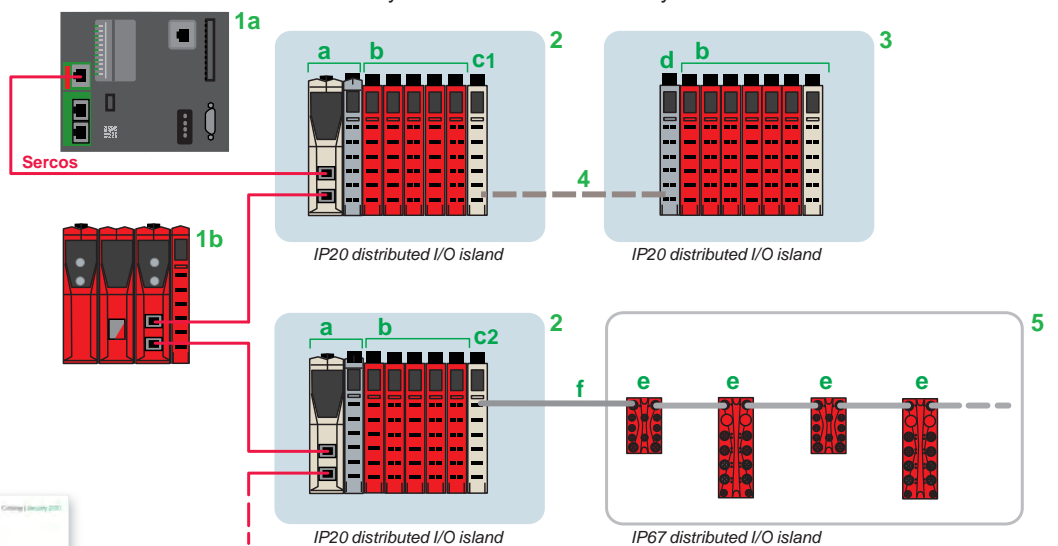### Connecting a Modicon M262 controller to Modicon TM5 and Modicon TM7 I/O systems

> On the embedded Ethernet ports of the Modicon M262 Logic/Motion controller, to extend its capacity with distributed I/O systems that provide flexibility and scalability for machines:
> - With Modicon TM5, IP20 Performance range of I/O designed for complex machines
> - With Modicon TM7, IP67 Performance range of I/O designed to work in harsh environments

EtherNet/IP

IP20 distributed I/O island   IP20 distributed I/O island

IP20 distributed I/O island   IP67 distributed I/O island
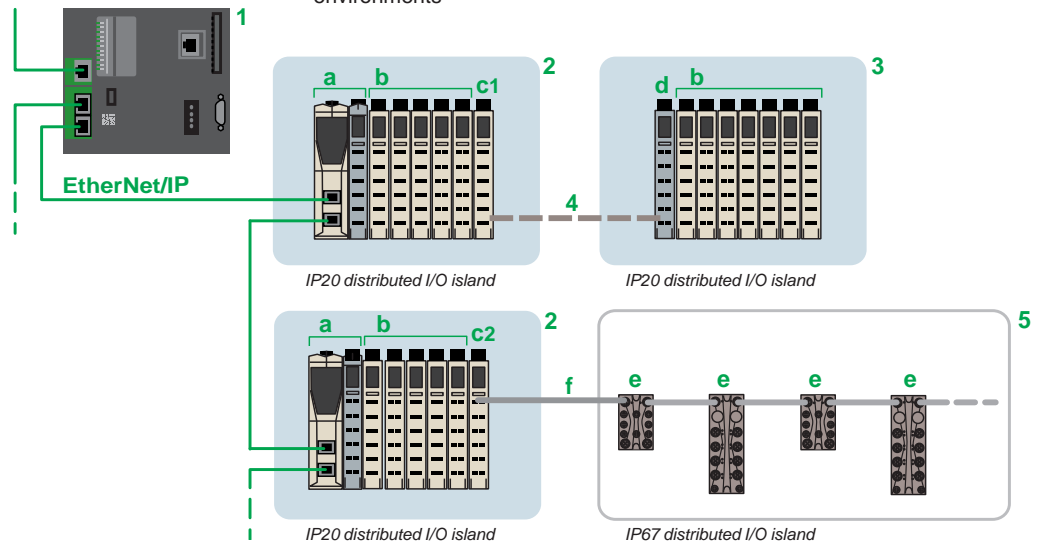
1 Modicon M262 Logic/Motion controller: EtherNet/IP network masters
2 TM5 EtherNet/IP interface module (slave) (**a**) + TM5 modules (**b**) + TM5SBET1 (**c1**)/ TM5SBET7 (**c2**) transmitter modules
3 TM5SBER2 receiver module (**d**) + TM5 I/O modules (**b**)
4 TM5 expansion bus: TCSXCNNXNX100 remote I/O connection cable
5 TM7 blocks (digital or analog I/O) (**e**) + TM7TCSXCN●●●E bus expansion cable (**f**)

Connecting a Modicon M262 Motion controller to Modicon TM5 and Modicon TM7 safety I/O systems

> On the embedded Sercos port of the Modicon M262 Motion controller: Embedded safety with the Modicon TM5CSLC safety logic controller, Modicon TM5 safety I/O and Modicon TM7 safety I/O.

Sercos

IP20 distributed I/O island   IP20 distributed I/O island

IP20 distributed I/O island   IP67 distributed I/O island

1 **a** Modicon M262 Motion controller: Sercos bus master
   b TM5CSLC safety logic controller: Sercos bus slave
2 TM5 interface module (**a**) + TM5 safety I/O modules (**b**) + TM5SBET1 (**c1**)/TM5SBET7 (**c2**) transmitter modules
3 TM5SBER2 receiver module (**d**) + TM5 safety I/O modules (**b**)
4 TM5 expansion bus: TCSXCNNXNX100 remote I/O connection cable
5 TM7 safety I/O blocks (**e**) + TM7TCSXCN●●●E bus expansion cable (**f**)

Modicon TM5
High-Performance and Safe IP20 Modular I/O System

Modicon TM7
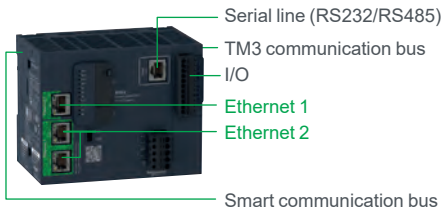High-Performance and Safe IP67 distributed I/O System

Schneider Electric

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Modicon M262
Logic/Motion controller – IIoT-ready for performance machines
Embedded communication

Embedded communication

Serial line (RS232/RS485)
TM3 communication bus
I/O
Ethernet 1
Ethernet 2

Smart communication bus

Modicon M262 Logic controller

Serial line (RS232/RS485)
TM3 communication bus
I/O
Ethernet 1 (Sercos III)
Ethernet 2
Encoder
Smart communication bus
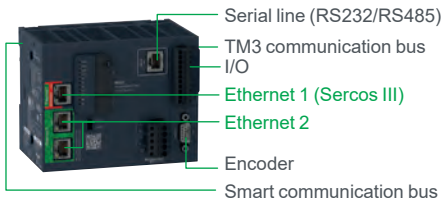
Modicon M262 Motion controller

> Modicon M262 Logic/Motion controllers embed:
- **-** Two Ethernet-based networks:
  - **-** Ethernet 1 with one RJ45 connector: 100 Mbit/s with EtherNet/IP, Modbus/ TCP; plus Sercos III on motion controllers
  - **-** Ethernet 2 with 2x RJ45 connectors: 1 Gbit/s with EtherNet/IP, Modbus/TCP allowing RSTP *(1)* ring topology and Service Ethernet RSTP *(1)*
  - **-** One isolated serial port with one RJ45, 0.3 to 115 kBauds, RS232 or RS485, with Modbus, ASCII and Machine Expert protocols
- **-** One smart communication bus, for TMS smart communication modules (Ethernet and CANopen)
- **-** One TM3 communication bus
- **-** One I/O port

> Modicon M262 Motion controllers embed one encoder connector for SSI incemental or absolute encoders, VW3M4701 cable can be used (to be ordered separately, see

Ethernet services

Available services on Modicon M262 Logic/Motion controllers and on the Ethernet smart communication module

Communication type	Protocol	Service
IP	TCP/UDP	MQTT Client (Sign and Encrypt)
		OPC UA Client (Sign and encrypt) (on TM262L20MESE8T, TM262M25MESS8T, TM262M35MESS8T)
		OPC UA Server (Sign and Encrypt)
		HTTPs Method (API)
		TLS 1.2 (Encryption)
		DHCP Client (Dynamic Host Configuration Protocol)
		DHCP Server
		DNS Client (Domain Name System)
		POP3s Client (Receive email) (Post Office Protocol)
		RSTP - Ring Topology (Rapid Spanning Tree Protocol)
		SMTPs Client (Send email) (Simple Mail Transfer Protocol)
		SNMP Agent (Simple Network Management Protocol)
		SNMP Manager
		SNTP (Simple Network Time Protol)
		SQL Remote access
		WebServer including Machine Assistant (Commissioning and Maintenance)
		WebVisu (Customizable pages)
	EtherNet/IP	Adapter
		Scanner
	Modbus TCP	Client
		IO Scanner
		Server
		NVL (Network Variable List)
	Machine Expert protocol	Symbol configuration
	FTP	FTP Client (File Transfer Protocol)
		FTPs Server
	Sercos	Sercos III Master (on M262 Motion controller)
Serial	CANopen	Master
Serial - RS485 or RS232	Modbus SL (ASCII or RTU)	Master
		IO Scanner
		Slave
		Modem Management
	ASCII	ASCII Manager
		Modem Management
	Machine Expert protocol	Symbol configuration
		Modem Management

Note:All protocols and services may not be available at the same time, please check with the User Guide or consult Schneider Electric support.

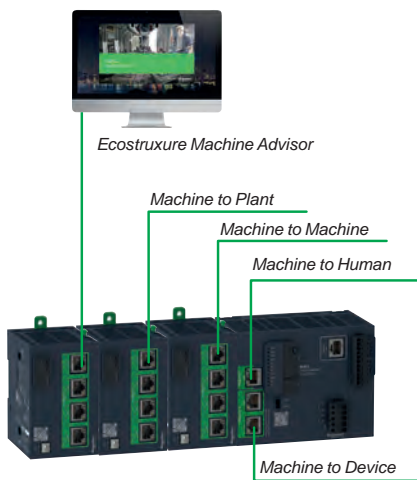For Ethernet cables and accessories, please consult our catalog ref. DIA3ED2160105EN.
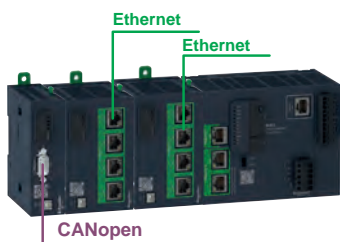
(1) Rapid Spanning Tree Protocol.

Schneider Electric

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Additional communication, Embedded safety

Ecostruxure Machine Advisor

Modicon M262 logic controller with 3x TMSES4 smart communication modules (maximum configuration)

Modicon M262 logic controller with 3 smart communication modules: TMSES4 and TMSCO1 (always the last module on the left): Maximum configuration with CANopen

Modicon TM262M●●● controlling TM5CSLC safety logic controller, TM5 safety I/O modules and TM7 safety I/O blocks on Sercos III

Modicon M262 Logic/Motion controller controlling TM3 functional safety modules: local I/O connected to the TM3 I/O bus

Modicon M262 Motion controller controlling Preventa XPSMCM modular safety controllers on Ethernet network

Additional communication

With the use of smart communication modules, the controllers benefit from optional connections:
- One CANopen connection
- Up to three Ethernet connections

> **TMSCO1** smart communication module - adds a CANopen port for CANopen master communication.
- The link can be configured between 20 kbps and 1 Mbit/s and supports up to 63 slaves.
- Architectures based on CANopen are used to distribute I/O modules as close to the sensors and actuators as possible, thus reducing wiring costs and times and to communicate with different devices such as variable speed drives, servo drives, etc.
- The CANopen configurator is integrated in the EcoStruxure Machine Expert software and can also be used to import standard description files in EDS format.
- For CANopen connection cables and accessories, please consult our catalog ref. DIA3ED2160104EN.

> **TMSES4** smart communication module - allows up to 3 additional Ethernet networks:
- 4x RJ45 switched ports as hub
- IIoT-ready
- Network isolation
- Ethernet Gigabyte exchange

Certifications and standards

> TMS smart communication modules meet the requirements of the following certifications: CE, cULus HazLoc, RCM, EAC, EU RO Mutual (Marine certification) *(1)*

> TMS smart communication modules conform to the following standards:
- UL 61010-1, UL 61010-2-201
- CSA C22.2 No. 61010-1, CSA C22.2 No. 61010-2-201, CSA C22.2 No. 213
- ANSI/ISA 12-12-01
- EN 61131-2

## Embedded safety

Modicon TM5CSLC safety logic controller

> Modicon TM262M●●● Motion controllers embed the Sercos protocol on their Ethernet 1 port, so that they can manage Modicon TM5CSLC safety logic controllers, set as slave on Sercos, Modicon TM5 safety I/O modules and Modicon TM7 safety I/O blocks.

Modicon TM3 functional safety modules

> Modicon M262 Logic/Motion controllers embed a TM3 I/O bus for managing Modicon TM3 functional safety modules, locally, in remote or distributed..

Safety offers by Schneider electric

> Preventa XPSMCM modular safety controllers on EtherNet/IP network (or Modbus RTU, Modbus/TCP, EtherCat, CANopen and ProfibusDP fieldbus)
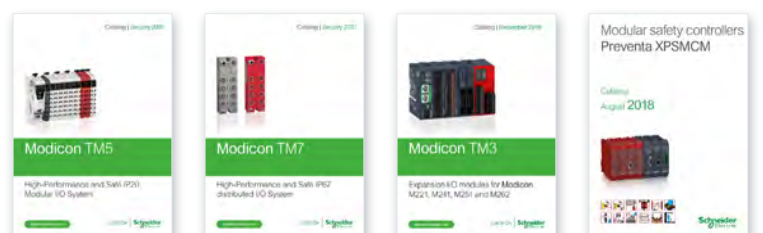
DIA3ED2131204EN   DIA3ED2140405EN   DIA3ED2140109EN   DIA3ED2140901EN

(1) Pending..

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 controllers
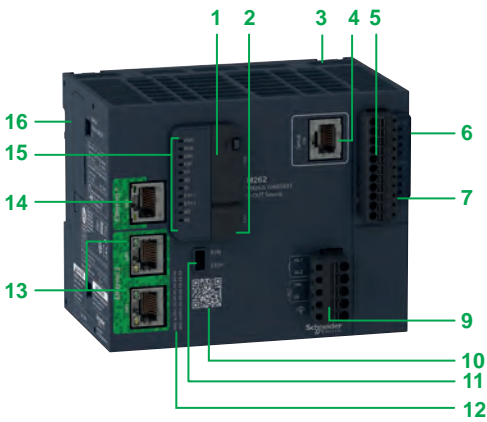
		Logic control		Motion control		
Applications						
Embedded I/O		4 fast digital inputs	4 fast digital inputs	4 fast digital inputs	4 fast digital inputs	4 fast digital inputs
		4 fast digital outputs	4 fast digital outputs	4 fast digital outputs	4 fast digital outputs	4 fast digital outputs
Encoder input		–	–	Incremental/SSI, 5 VDC/24 VDC	Incremental/SSI, 5 VDC/24 VDC	Incremental/SSI, 5 VDC/24 VDC
Synchronized axes		–	–	4 (1 ms)	8 (2 ms)	16 (2 ms)
Performance		5 ns/inst	3 ns/inst	5 ns/inst	3 ns/inst	3 ns/inst
Certifications		CE, cULus HazLoc, RCM, EAC, Achilles L2, EU RO Mutual (Marine certification) (1)		CE, cULus HazLoc, RCM, EAC, Achilles L2, EU RO Mutual (Marine certification) (1)		
Standards		UL 61010-1, -2-201 CSA C22.2 No. 61010-1, CSA C22.2 No. 61010-2-201, CSA C22.2 No. 213 ANSI/ISA 12-12-01 EN 61131-2		UL 61010-1, -2-201 CSA C22.2 No. 61010-1, CSA C22.2 No. 61010-2-201, CSA C22.2 No. 213 ANSI/ISA 12-12-01 EN 61131-2		
Ambient air temperature for operation		> Horizontal mounting: - 20 °C…60 °C (-4…140 °F) > Vertical mounting: - 20 °C…50 °C (-4…122 °F) > Flat mounting: - 20 °C…45 °C (-4…113 °F)		> Horizontal mounting: - 20 °C…60 °C (-4…140 °F) > Vertical mounting: - 20 °C…50 °C (-4…122 °F) > Flat mounting: - 20 °C…45 °C (-4…113 °F)		
Embedded communication	Ethernet	> Ethernet 1 with one RJ45 port : 100 Mbit/s with EtherNet/IP and Modbus/TCP > Ethernet 2 with two RJ45 ports: 1 Gbit/s with EtherNet/IP Modbus/TCP and Service Ethernet RSTP (Rapid Spanning Tree Protocol)		> Ethernet 1 with one RJ45 port : 100 Mbit/s with EtherNet/IP, Modbus/TCP and Sercos III > Ethernet 2 with two RJ45 ports: 1 G bit/s with EtherNet/IP, Modbus/TCP and Service Ethernet RSTP (Rapid Spanning Tree Protocol)		
	Services	Scanner manager on EtherNet/IP and Modbus/TCP, EtherNet/IP Adapter, DHCP Client/Server, Data exchange - IEC VAR ACCESS, Modbus/TCP Client/Server, Modbus/TCP Client device, SNMP Client/Server, FTP Client/Server, Web server and Web visu, SQL Client, Send/receive email based on TCP/UDP Library, Web server, OPC UA Server, DNS Client, MQTT, HTTP, SNTP, TLS, Machine Assistant, OPC UA Client (only on TM262L20MESE8T)		Scanner manager on EtherNet/IP and Modbus/TCP, EtherNet/IP Adapter, DHCP Client/Server, Data exchange - IEC VAR ACCESS, Modbus/TCP Client/Server, Modbus/TCP Client device, SNMP Client/Server, FTP Client/Server, Web server and Web visu, SQL Client, Send/receive email based on TCP/UDP Library, Web server, OPC UA Server, DNS Client, MQTT, HTTP, SNTP, TLS, Machine Assistant, OPC UA Client (only on TM262M25MESS8T and TM262M35MESS8T)		
	USB	1x USB Mini-B isolated (programming, virtual port, FTP, HTTP, Modbus)		1x USB Mini-B isolated (programming, virtual port, FTP, HTTP, Modbus)		
	Memory card	Secure Digital card (SD up to 2 GB or SDHC up to 32 GB)		Secure Digital card (SD up to 2 GB or SDHC up to 32 GB)		
	Serial line	One isolated serial link (RJ45): RS232 or RS485 (configurable), with RTU, Modbus SL, ASCII and Machine Expert protocols		One isolated serial link (RJ45): RS232 or RS485 (configurable), with RTU, Modbus SL, ASCII and Machine Expert protocols		
Additional communication	Ethernet	Up to three additional Ethernet networks (EtherNet/IP Adapter and Modbus/TCP Server) with TMSES4 Smart communication module: - 4 switched RJ45 ports as hub - IIoT-ready - Network isolation with management from M262 - Ethernet Gigabyte exchange		Up to three additional Ethernet networks (EtherNet/IP Adapter and Modbus/TCP Server) with TMSES4 Smart communication module: - 4 switched RJ45 ports as hub - IIoT-ready - Network isolation with management from M262 - Ethernet Gigabyte exchange		
	CANopen	One CANopen port for CANopen master communication with TMSCO1 smart communication module		One CANopen port for CANopen master communication with TMSCO1 smart communication module		
Compatible I/O systems	For local and remote I/O	> Modicon TM3 (2): - Expert modules (upcounting, downcounting, allow event (TM3XFHSC) on 2 first slots) - Analog modules - Digital modules - Embedded safety with TM3 functional safety modules		> Modicon TM3 (2): - Expert modules (upcounting, downcounting, allow event (TM3XFHSC) on 2 first slots) - Analog modules - Digital modules - Embedded safety with TM3 functional safety modules		
	For distributed I/O on Ethernet network	> Modicon TM3 Ethernet bus coupler (2) > Modicon TM5 Ethernet network interface module (3)		> Modicon TM3 Ethernet bus coupler (2) > Modicon TM5 Ethernet network interface module (3)		
	on Sercos bus	–		> Modicon TM5 Sercos bus interface module (3), Embedded safety with TM5CSLC safety logic controllers, Modicon TM5 safety I/O modules > Modicon TM7 safety I/O blocks (4)		
	on CANopen bus	> Modicon TM3 CANopen bus coupler (2) > Modicon TM5 CANopen bus interface module (3) > Modicon TM7 CANopen interface block (4)		> Modicon TM3 CANopen bus coupler (2) > Modicon TM5 CANopen bus interface module (3) > Modicon TM7 CANopen interface block (4)		
Configuration software		EcoStruxure Machine Expert software (5)		EcoStruxure Machine Expert software (5)		
Type of controller		TM262L10MESE8T	TM262L20MESE8T	TM262M15MESS8T	TM262M25MESS8T	TM262M35MESS8T
Page		19		19		

(1) Pending.
(2) Consult catalog ref. DIA3ED2140109EN.
(3) Consult catalog ref. DIA3ED2131204EN.
(4) Consult catalog ref. DIA3ED2140405EN.
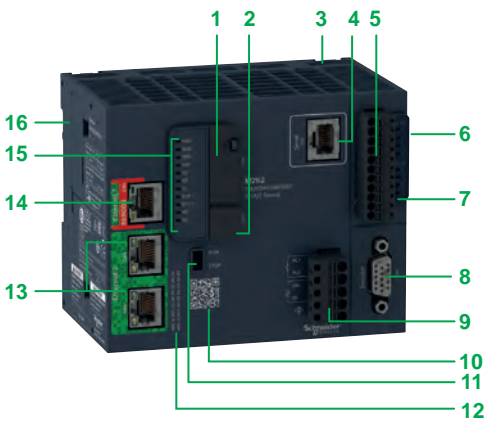(5) Consult catalog ref. DIA3ED2180701EN.

Modicon M262

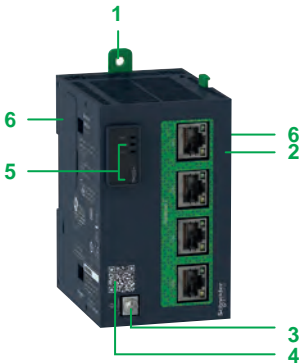## Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 controllers, TMS smart communication modules
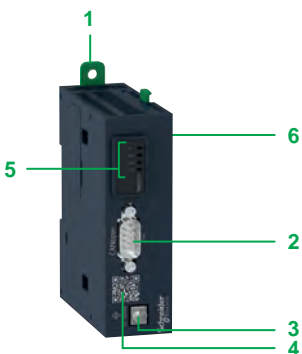

Modicon M262 Logic controller

Modicon M262 Motion controller

TMSES4 Ethernet smart communication module

TMSCO1 CANopen smart communication module

Description

Modicon M262 controllers *(1)*

1 SD card slot marked CN4 (behind a protective cover)
2 USB Mini-B programming port marked CN5 (behind a protective cover)
3 Clip-on lock for 35 mm *(1.38 in.)* DIN rail
4 RJ45 port marked CN6 for Serial line
5 Removable spring terminal connector marked CN8 for inputs/outputs *(1)*
6 On right side of the controller: TM3 I/O bus connector
7 I/O status LEDs
8 On TM262M: type Sub-D 15-way connector marked CN9 for encoder
9 Removable spring terminal connector marked CN7 (provided with the controller) for 24 VDC power supply input/alarm relay *(1)*
10 QR code: link to SE product maintenance page and unique serial number (S/N)
11 Run/Stop switch (with relief protecting unsolicited switching)
12 MAC addresses written on Modicon M262 front face
13 2x Ethernet switched ports (type RJ45) marked Eth2 (CN2 and CN3)
14 On TM262L●●● Logic controllers: 1 Ethernet port (type RJ45) marked Eth1 (CN1)
On TM262M●●● Motion controllers: 1 Ethernet/Sercos port (type RJ45) marked Eth1 (CN1)
15 Status LEDs
16 On left side of controller: smart communication bus connector

TMS smart communication modules

1 Clip-on lock for 35 mm *(1.38 in.)* DIN rail
2 On TMSES4: 4x Ethernet switched ports, type RJ45 (10 BASE-T -100-1000 BASE-TX)
On TMSCO1 *:* 1 CANopen port, type Sub-D 9-way
3 Functional ground connector
4 QR code: link to SE product maintenance page and unique serial number (S/N)
5 Status LEDs
6 Smart communication bus connector:
  - on both sides of TMSES4 Ethernet smart communication module
  - on right side of TMSCO1 CANopen smart communication module only

(1) Modicon M262 controllers are supplied with removable spring terminal blocks for connecting the I/O and power supply.
Note: It is advisable to use the TM2XMTGB grounding plate, which simplifies connection of the analog sensor and actuator cable shielding. This shielding must be connected to the device's functional ground.

Schneider
Electric

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 controllers, TMS smart communication modules

TM262L●0MESE8T

TM262M●5MESS8T
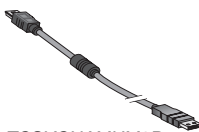

TMSES4   *TMSCO1*

TMA262SET8S   *TMA262SET8G*

TMAM3

TM2XMTGB

TCSXCNAMUM3P

DIA3ED2140109EN   *DIA3ED2131204EN*

DIA3ED2140405EN   *DIA3ED2180701EN*

References

Modicon M262 controllers *(1)* 24 V ⎓ power supply

I/O	Execution speed ns/Boleean instructions	Max. no. of synchronized axes	Embedded communication networks *(2)*			Reference	Weight kg/*lb*
			Ethernet	Sercos	Serial link		
Logic controllers							
4 fast digital inputs/4 fast digital ouputs	5	–	2	–	1	**TM262L10MESE8T**	0.665 *1.466*
	3	–	2 *(3)*	–	1	**TM262L20MESE8T**	0.665 *1.466*
Motion controllers							
4 fast digital inputs/4 fast digital ouputs + 1 encoder input (incremental/SSI, 5 VDC/24 VDC)	5	4 axes	2	1	1	**TM262M15MESS8T**	0.670 *1.477*
	3	8 axes	2 *(3)*	1	1	**TM262M25MESS8T**	0.670 *1.477*
	3	16 axes	2 *(3)*	1	1	**TM262M35MESS8T**	0.670 *1.477*

TMS smart communication modules for Modicon M262 controllers

Designation	Description	Reference	Weight kg/*lb*
Ethernet smart communication module	For adding an Ethernet network Equipped with 4x RJ45 switched ports: - IIoT-ready - Network isolation - Ethernet Gigabyte exchange	**TMSES4**	0.403 *0.888*
CANopen smart communication module	For adding a CANopen master network Equipped with a 9-way SUB-D connector	**TMSCO1**	0.150 *0.330*

Spare parts for Modicon M262 controllers

Designation	Description	Reference	Weight kg/*lb*
Mounting kit	2 attachment parts to mount the controller and TMS modules directly to a flat, vertical panel	**TMAM3**	–
Set of screw terminal blocks	Connecting I/O and power supply	**TMA262SET8S**	0.030 *0.066*
Set of spring terminal blocks	Connecting I/O and power supply	**TMA262SET8G**	0.030 *0.066*

Accessories for Modicon M262 controllers

Designation	Description	Reference	Weight kg/*lb*
Secure Digital card	Application backup and program transfer Capacity: 256 MB	**TMASD1**	0.004/ *0.009*
Grounding plate	Support equipped with 10 male Faston connectors for connecting the cable shielding (via 6.35 mm *(0.25 in.)* connectors, not supplied) and the functional ground (FG)	**TM2XMTGB**	0.045/ 0.099

Connection cables

Designation	Use from	to	Length m *(ft)*	Reference	Weight kg/*lb*
Programming cables	PC (USB port)	Modicon M262 controller (USB Mini-B port)	3 *(0.98)*	**TCSXCNAMUM3P** *(4)*	0.065/ *0.143*
			1.8 *(5.90)*	**BMXXCAUSBH018**	0.065/ *0.143*
Cable for master encoder input	Incremental or SSI serial absolute encoders (1 stripped end)	Modicon M262 Motion controller (Sub-D connector marked CN9)	1 *(3.28)*	**VW3M4701**	–

Expansion modules
Please consult the catalog ref.

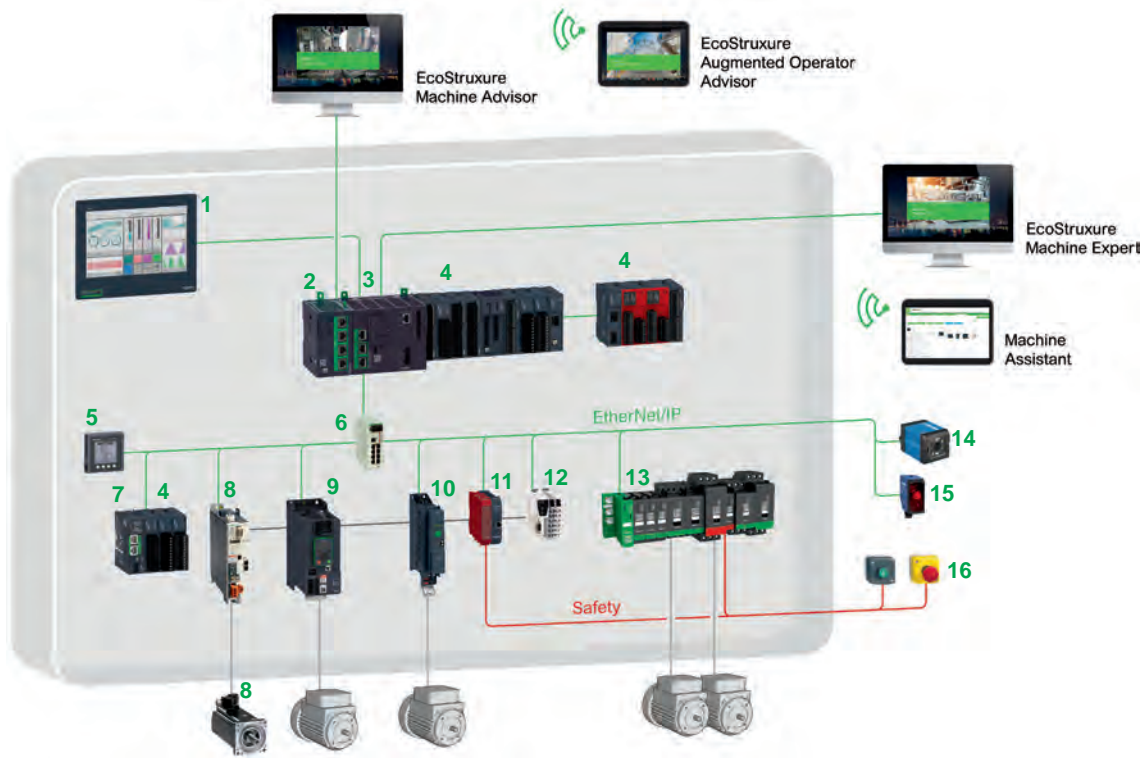### Programming software
Please consult the catalog ref.

(1) Modicon M262 controllers are supplied with removable spring terminal blocks for the I/O and power supply connections.
(2) Ethernet embeds EtherNet/IP and Modbus/TCP, only one Master allowed, in combination with Sercos, Eth. 1 allows EtherNet/IP, Modbus/TCP ,and Sercos on same port and cable (one-cable).
(3) OPC UA Client service is available on this model with EcoStruxure Machine Expert.
(4) Unshielded, non-grounded cable. For use on temporary connections only. For permanent connections, use cable reference BMXXCAUSBH018.

Modicon M262

Logic/Motion controller – IIoT-ready for performance machines

Modicon M262 Logic controller in a TVDA

Modicon M262 Logic controller

Solution breakdown
Refer to our catalogs on **Digi-Cat** *(click to consult Digi-Cat)*

1 Harmony iPC: Touchscreen display *(1)*
2 Modicon TMSES4 Ethernet smart communication module
3 Modicon M262 Logic controller
4 Modicon TM3 expansion modules (digital, analog, Expert and safety I/O)
5 PowerLogic Power Meter
6 Ethernet Switch
7 Modicon TM3 Ethernet bus coupler
8 Lexium 32 servo drive and BMH/BSH servo motor

9 Altivar Machine ATV340 variable speed drive
10 Altivar Machine ATV320 variable speed drive
11 Preventa XPSMCM modular safety controller
12 Modicon TM5 Ethernet interface module
13 TeSys island Digital multifunctional load management solution
14 Telemecanique Vision sensor
15 Telemecanique Photoelectric Sensors
16 Harmony® XB5 plastic pushbutton and Emergency stop

(1) Formerly named as iPC.

Modicon M262 Motion controller in a Tested Validated & Documented Architecture (TVDA)
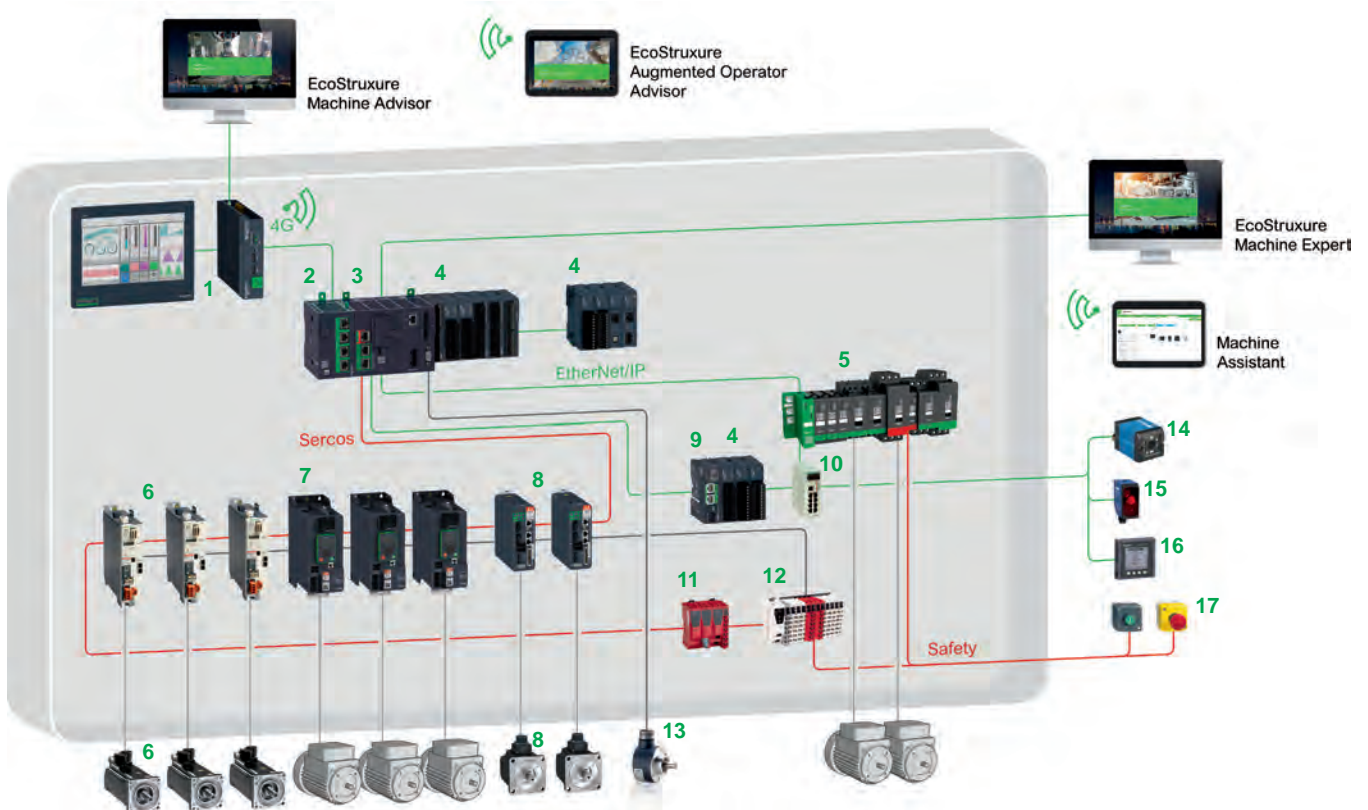
Solution breakdown
Refer to our catalogs on Digi-Cat (click to consult Digi-Cat)

1 Harmony iPC: Touchscreen display and IIoT Edge
   Box *(1)*
2 Modicon TMSES4 smart communication module
3 Modicon M262 Motion controller
4 Modicon TM3 expansion modules (digital, analog
   and Expert I/O)
5 TeSys island Digital multifunctional load management
   solution
6 Lexium 32S servo drives and BMH/BSH servo
   motors
7 Altivar Machine ATV340 variable speed drives
8 Lexium 28 servo drives and BCH2 servo motors
9 Modicon TM3 Ethernet bus coupler

10 Ethernet Switch
11 Modicon TM5CSLC safety logic controller
12 Modicon TM5: Sercos interface module and I/O modules (digital, analog and
   safety I/O)
13 Encoders
14 Telemecanique Vision sensor
15 Telemecanique Photoelectric Sensors
16 PowerLogic Power Meter
17 Harmony® XB5 plastic pushbutton and Emergency stop

(1) Formerly named as iPC.

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