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

Catalog
June 2019
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- 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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IIoT-ready for performance machines

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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 IIoT 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 builders 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%

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**EcoStruxure Architecture**

<table>
<thead>
<tr>
<th>Packaging &amp; Food &amp; Beverage Machinery</th>
<th>Material Handling</th>
<th>Material Working</th>
<th>Hoisting</th>
<th>Pumping</th>
<th>HVAC</th>
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<tbody>
<tr>
<td><strong>Apps, Analytics &amp; Services</strong></td>
<td></td>
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<tr>
<td>AVEVA Software*</td>
<td>EcoStruxure Machine Advisor</td>
<td>EcoStruxure Secure Connect Advisor</td>
<td>EcoStruxure Augmented Operator Advisor</td>
<td></td>
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<tr>
<td>EcoStruxure Machine Advisor</td>
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<td>EcoStruxure Secure Connect Advisor</td>
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<td>EcoStruxure Augmented Operator Advisor</td>
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</tbody>
</table>

**Connected products**

- Magelis HMI
- Harmony Control & Signaling
- Zelio Relays
- Sensors & RFID
- TeSys Motor control
- Allitrav Variable Speed Drives
- Preventa Machine Safety
- Lexium Motion Control & Robotics
- Industrial UPS
- Compact Circuit Breakers

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*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.*
### Selection guide

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

Controllers for industrial machines

#### Applications

<table>
<thead>
<tr>
<th>Type</th>
<th>Specification</th>
<th>Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic controller</td>
<td>For hardwired architectures</td>
<td>Logic/Motion controller</td>
<td>For performance-demanding applications</td>
</tr>
<tr>
<td>Motion controller</td>
<td>For modular and distributed architectures</td>
<td>Motion controller</td>
<td>IIoT ready for performance machines</td>
</tr>
</tbody>
</table>

#### Performance

<table>
<thead>
<tr>
<th></th>
<th>Logic controller</th>
<th>Logic/Motion controller</th>
<th>Motion controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 µs/inst</td>
<td>22 ms/inst</td>
<td>22 ms/inst</td>
<td>3...5 ms/inst</td>
</tr>
<tr>
<td>Memory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>640 KB RAM, 2 MB Flash</td>
<td>64 MB RAM, 128 MB Flash</td>
<td>64 MB RAM, 128 MB Flash</td>
<td>128 KB to 256 KB NV RAM</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>24 V or 100...240 V ~</td>
<td>24 V or 100...240 V ~</td>
<td>24 V or 100...240 V ~</td>
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</table>

#### Communication fieldbus and networks

<table>
<thead>
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<th>Logic controller</th>
<th>Logic/Motion controller</th>
<th>Motion controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• EtherNet/IP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• RS 232/RS 485 serial link</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• USB mini-B programming port</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 1 Serial Line</td>
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<td></td>
<td></td>
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<tr>
<td>• Ethernet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Profibus DP</td>
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</table>

#### Embedded I/O

<table>
<thead>
<tr>
<th></th>
<th>Logic controller</th>
<th>Logic/Motion controller</th>
<th>Motion controller</th>
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<tbody>
<tr>
<td>Input types</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 40 logic inputs</td>
<td></td>
<td>Up to 2 analog inputs</td>
<td>4 fast digital inputs</td>
</tr>
<tr>
<td>Output types</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 16 relay outputs</td>
<td></td>
<td>Up to 16 transistor outputs</td>
<td>Up to 16 digital outputs</td>
</tr>
<tr>
<td>Synchronized axes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–</td>
<td></td>
<td></td>
<td>Up to 16 synchronized axes</td>
</tr>
</tbody>
</table>

#### Configuration software

<table>
<thead>
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<th></th>
<th>Logic controller</th>
<th>Logic/Motion controller</th>
<th>Motion controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>EcoStruxure Machine Expert-Basic</td>
<td></td>
<td>EcoStruxure Machine Expert V1.1</td>
<td>EcoStruxure Machine Expert V1.1</td>
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<td>EcoStruxure Machine Expert V1.1</td>
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</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Logic controller</th>
<th>Logic/Motion controller</th>
<th>Motion controller</th>
</tr>
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<tbody>
<tr>
<td>Local I/O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote I/O</td>
<td>Modicon TM3</td>
<td>Modicon TM3</td>
<td></td>
</tr>
<tr>
<td>Distributed I/O on Ethernet</td>
<td>Modicon TM3</td>
<td>Modicon TM3</td>
<td>Modicon TM5</td>
</tr>
<tr>
<td>Distributed I/O on CANopen</td>
<td>Modicon TM3</td>
<td>Modicon TM3</td>
<td>Modicon TM5</td>
</tr>
<tr>
<td>Safety I/O</td>
<td>Modicon TM3</td>
<td>Modicon TM3</td>
<td>Modicon TM5</td>
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</table>

#### Controller range

<table>
<thead>
<tr>
<th></th>
<th>Logic controller</th>
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<th>Motion controller</th>
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<tbody>
<tr>
<td>Modicon M221/M221 Book</td>
<td></td>
<td></td>
<td>LMC Eco, LMC Pro2</td>
</tr>
<tr>
<td>Modicon M241</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modicon M251</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Modicon M262</td>
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#### More details in catalog

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>DIA3ED2140109EN</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

(1) Formerly named SoMachine Basic.  
(2) Formerly named SoMachine, EcoStruxure Machine Expert merges both former software ranges, SoMachine and SoMachine Motion.
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%
Logic/Motion controller – Modicon M262
IIoT ready for performance machines
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.

- 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:

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

2. **Plan**
   - Discussing your maintenance policy and needs arising from it

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

4. **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

- 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.
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 capability and supports monitoring, analytics, and predictive maintenance.

As the latest polyvalent controller for Logic and Motion with cloud protocols (MQTT, HTTP, JSON, OPC UA) and encryption (TLS), the Modicon M262 is made for you. Modicon controllers are a key part of our EcoStruxure Machine that provides complete architecture 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

- **Machine to Machine**
  - 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 the Modicon M262 APIs and take advantage of IT capabilities such as email exchange, event management in the calendar, interaction with social networks, weather information, etc.

- **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 the Modicon M262 APIs and take advantage of IT capabilities such as email exchange, event management in the calendar, interaction with social networks, weather information, etc.

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

- **Structured networking with up to 5 separate Ethernet ports (2 embedded in the 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

- **Optimized I/O with Modicon TM3 expansion bus (local and remote I/O), with Modicon TM3 bus coupler (distributed I/O on EtherNet/IP, Modbus TCP)**

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

- **Automation “à la carte” with smart communication modules**
- **Scalable performance - Manage logic applications, synchronized motion, embedded safety, and cloud connectivity all 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.**
Logic/Motion controller – Modicon M262
IIoT-ready for performance machines
General overview

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

- **Lexium LXM32S**
- **Altivar Machine ATV340S**
- **TeSys Island: connected load management system**
- **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 openness 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

▲ Available 4th quarter 2019
The Modicon M262 Logic/Motion controller offer is made 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 capable of attaining 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 screw terminals 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 (TM262Mppp) embed an encoder input (SSI or incremental)
  - 5 VDC or 24 VDC configurable power supply, 150 mA
  - SSI100 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
  - Extended I/O on communication networks:
    - Optimized distributed I/O islands on Ethernet with Modicon TM3
    - Performance distributed I/O islands with Modicon TM5 and Modicon TM7 on Ethernet or Sercos III

**Equipment**

Modicon M262 Logic/Motion controllers are equipped with:

- an integrated RTC
- a Run/Stop switch
- a NO alarm relay contact 24 VDC/2 A

(1) Removable screw terminals are supplied with the controllers.
Logic/Motion controller – Modicon M262
IIoT-ready for performance machines
Modicon M262 Logic/Motion controllers

Performance

> The Modicon M262 Logic/Motion controllers have a dual-core processor:
  - Core 1 is dedicated exclusively to managing program tasks and offers
    maximum resources for real-time execution of the application code.
  - Core 2 is dedicated to executing 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 256 MB Flash
  memory for application and data backup. An 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:
  - CE, cULus, RCM(1), EAC(1), Achilles
- 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…2,000 m (0…6,562 ft)
- Storage altitude: 0…3,000 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 100 W.

Programming

> EcoStruxure Machine Expert V1.1 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
Modicon M262 Logic/Motion controllers

**Housing**

> With their 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 (1) 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 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**

> There is a USB Mini-B isolated port for programming (with Machine Expert, FTP, HTTP and Modbus protocols).
> A smart communication bus allows connection of up to three smart communication modules, 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. 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 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 bus port located on the right-hand side of the Modicon M262 controller allows connection of any of the TM3 expansion modules for local, remote, or distributed I/O configurations:
  - Local I/O: 7x Modicon TM3 expansion modules (max. configuration)
  - Remote I/O: + 7x remote modules (equals 14x TM3 modules: 7x local + 7x remote)
  - Distributed I/O: up to 64x TM3 bus coupler (EtherNet/IP or Modbus TCP), allowing 14x TM3 I/O modules by bus coupler (EtherNet/IP)

(1) For vertical or flat mounting, please consult our Customer Care Center.
Logic/Motion controller – Modicon M262
IIoT-ready for performance machines
Modicon M262 Logic/Motion controllers

Modicon M262 Logic/Motion controllers
Connecting a Modicon M262 controller to Modicon TM5 and 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

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. TM5SSBER2 receiver module (d) + TM5 I/O modules (b)
4. TM5 expansion bus: TCSXCNNX100 remote I/O connection cable
5. Modicon TM7 blocks (digital or analog I/O) (e) + TM7TCSXCN100E bus expansion cable (f)

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

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

1a. Modicon M262 Logic/Motion controller: Sercos bus master
b. Modicon 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. TM5SSBER2 receiver module (d) + TM5 safety I/O modules (b)
4. TM5 expansion bus: TCSXCNNX100 remote I/O connection cable
5. Modicon TM7 safety I/O blocks (e) + TM7TCSXCN100E bus expansion cable (f)
Logic/Motion controller – Modicon M262
IIoT-ready for performance machines
Embedded communication, Additional communication

Modicon M262 Logic/Motion controllers

Modicon M262 Logic/Motion controllers embed:
- Two Ethernet-based networks:
  - Ethernet 1 with one RJ45 connector: 100 Mbps with EtherNet/IP, Modbus TCP; plus Sercos III on motion controllers
  - Ethernet 2 with 2x RJ45 connectors: 1 GB/s with EtherNet/IP and Modbus TCP
- 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.

Additional communication

With the use of two 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 Mbps 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. DIA3ED2160105EN.

**TMSES4** smart communication module - allows up to 3 additional Ethernet networks:
- 4x RJ45 switched ports as hub
- IIoT-ready
- Network isolation
- Ethernet Gigabyte exchange
- Cybersecurity Achilles L1

Certifications and standards

- TMS smart communication modules meet the requirements of the following certifications: CE, cULus, RCM (1), EAC (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

(1) Pending
Modicon M262 Logic/Motion controllers
Embedded safety

Modicon TM5CSLC safety logic controller

> Modicon TM262 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 TM262 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 bus for managing Modicon TM3 functional safety modules.

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

Safety offers by Schneider electric
Preventa XPSMC modular safety controllers

> Preventa XPSMC modular safety controllers on EtherNet/IP network (or Modbus RTU, Modbus/TCP, EtherCat, CANopen and Profinet fieldbus)

Modicon TM262M controlling Preventa XPSMC modular safety controllers on Ethernet network
### Logic/Motion controller – Modicon M262

**IIoT-ready for performance machines**

**Modicon M262 controllers**

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<th>Selection Guide</th>
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<td><img src="image1.png" alt="Logic control" /></td>
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#### Applications

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<th>Motion control</th>
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#### Embedded I/O

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#### Encoder input

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<td>Incremental/SSI, 5 VDC/24 VDC</td>
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<tr>
<td>Incremental/SSI, 5 VDC/24 VDC</td>
<td>Incremental/SSI, 5 VDC/24 VDC</td>
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<td>Incremental/SSI, 5 VDC/24 VDC</td>
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#### Application examples

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<td>Vertical mounting: -20 °C…50 °C</td>
<td>Vertical mounting: -20 °C…50 °C</td>
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<tr>
<td>Horizontal mounting: -20 °C…60 °C</td>
<td>Horizontal mounting: -20 °C…60 °C</td>
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<tr>
<td>Flat mounting: -20 °C…45 °C</td>
<td>Flat mounting: -20 °C…45 °C</td>
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#### Performance

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<td>3 m/s</td>
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<td>3 m/s</td>
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#### Certifications

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<td>UL 61010-1, 2-201, ANSI/ISA 12-12-01</td>
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<td>CSA C22.2 No. 61010-1, 2-201, CSA C22.2 No. 213</td>
<td>CSA C22.2 No. 61010-1, 2-201, CSA C22.2 No. 213</td>
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#### Standards

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<td>EN 61131-2</td>
<td>EN 61131-2</td>
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<td>EN 60204-1, -2-201, CSA C22.2 No. 61010-1, -2-201</td>
<td>EN 60204-1, -2-201, CSA C22.2 No. 61010-1, -2-201</td>
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#### Ambient air temperature for operation

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<td>Horizontal mounting: -20 °C…50 °C</td>
<td>Horizontal mounting: -20 °C…50 °C</td>
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<td>Vertical mounting: -20 °C…50 °C</td>
<td>Vertical mounting: -20 °C…50 °C</td>
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<td>Flat mounting: -20 °C…45 °C</td>
<td>Flat mounting: -20 °C…45 °C</td>
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#### Embedded communication

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<th>Motion control</th>
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<tbody>
<tr>
<td>Ethernet 1 with one RJ45 port: 100 Mbps with EtherNet/IP and Modbus TCP</td>
<td>Ethernet 1 with one RJ45 port: 100 Mbps with EtherNet/IP and Modbus TCP</td>
</tr>
<tr>
<td>Ethernet 2 with two RJ45 ports: 1 Gbps with EtherNet/IP and Modbus TCP</td>
<td>Ethernet 2 with two RJ45 ports: 1 Gbps with EtherNet/IP and Modbus TCP</td>
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#### Services

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<th>Logic control</th>
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<td>Scanner manager on EtherNet/IP and Modbus TCP</td>
<td>Scanner manager on EtherNet/IP and Modbus TCP</td>
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#### USB

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<th>Logic control</th>
<th>Motion control</th>
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<tr>
<td>1x USB Mini-B isolated (programming, virtual port, FTP, HTTP, Modbus)</td>
<td>1x USB Mini-B isolated (programming, virtual port, FTP, HTTP, Modbus)</td>
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#### Memory card

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<td>Secure Digital card (SD up to 2 GB on SDHC up to 32 GB)</td>
<td>Secure Digital card (SD up to 2 GB on SDHC up to 32 GB)</td>
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#### Serial line

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<th>Logic control</th>
<th>Motion control</th>
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<tbody>
<tr>
<td>One isolated serial line (RS422 or RS485) (configurable), with RTU, Modbus SL, ASCII, and Machine Expert protocols</td>
<td>One isolated serial line (RS422 or RS485) (configurable), with RTU, Modbus SL, ASCII, and Machine Expert protocols</td>
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#### Additional communication

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<td>Up to three additional Ethernet networks (EtherNet/IP Slave and Modbus TCP) with TMMS4</td>
<td>Up to three additional Ethernet networks (EtherNet/IP Slave and Modbus TCP) with TMMS4</td>
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<tr>
<td>Smart communication module: - 4 switched RJ45 ports as hub - IEC-ready - Network isolation with management from M262 - Ethernet Gigabyte exchange - Cybersecurity-Achilles L1</td>
<td>Smart communication module: - 4 switched RJ45 ports as hub - IEC-ready - Network isolation with management from M262 - Ethernet Gigabyte exchange - Cybersecurity-Achilles L1</td>
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#### CANopen

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<td>One CANopen port for CANopen master communication with TMSC01 smart communication module</td>
<td>One CANopen port for CANopen master communication with TMSC01 smart communication module</td>
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#### Compatible I/O systems

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<td>For local and remote I/O</td>
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<td>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</td>
<td>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</td>
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#### For distributed I/O on Ethernet network

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<tr>
<td>on Sercos bus</td>
<td>on Sercos bus</td>
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<tr>
<td>Modicon TM3 Ethernet bus coupler</td>
<td>Modicon TM3 Ethernet bus coupler</td>
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<tr>
<td>Modicon TM3 Ethernet network interface module (3)</td>
<td>Modicon TM3 Ethernet network interface module (3)</td>
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<tr>
<td>Modicon TM3 Sercos bus-interface module (3), Embedded safety with TMSC5C &amp; safety logic controllers, Modicon TM3 safety I/O modules</td>
<td>Modicon TM3 Sercos bus-interface module (3), Embedded safety with TMSC5C &amp; safety logic controllers, Modicon TM3 safety I/O modules</td>
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<tr>
<td>Modicon TM7 safety I/O blocks (4)</td>
<td>Modicon TM7 safety I/O blocks (4)</td>
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#### On CANopen bus

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<th>Logic control</th>
<th>Motion control</th>
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<tr>
<td>Modicon TM3 CANopen bus interface module (3)</td>
<td>Modicon TM3 CANopen bus interface module (3)</td>
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<tr>
<td>Modicon TM7 CANopen interface block (4)</td>
<td>Modicon TM7 CANopen interface block (4)</td>
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#### Configuration software

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<td>EcoStruxure Machine Expert V1.1 software (6)</td>
<td>EcoStruxure Machine Expert V1.1 software (6)</td>
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#### Type of controller

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<td>TM262L10MESE8T</td>
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<td>TM262M25MESS8T</td>
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**More technical information on www.schneider-electric.com**
Logic/Motion controller – Modicon M262
IIoT-ready for performance machines
Modicon M262 controllers
TMS smart communication modules

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
6. On right side of the controller: TM3 bus connector
7. I/O status LEDs
8. On TM262M: Sub-D connector marked CN9 for encoder
9. Removable spring terminal connector marked CN7 (provided with the controller) for 24 VDC power supply input/alarm relay
10. QR code: link to SE product maintenance page and unique serial number (S/N)
11. Run/Stop switch
12. MAC addresses written on Modicon M262 front face
13. 2x Ethernet switched ports (type RJ45) marked CN2 and CN3
14. On TM262L logic controllers: 1 Ethernet port (type RJ45) marked CN1
   On TM262M motion controllers: 1 Ethernet/Sercos port (type RJ45) marked CN1
15. Status LEDs
16. On left side of controller: smart communication bus connector

Modicon TM262L logic controller

Modicon TM262M motion controller

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 connectors 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.
**Logic/Motion controller – Modicon M262**

IIoT-ready for performance machines

Modicon M262 controllers

TMS smart communication modules

---

### References

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

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<th>Execution speed (ns/Boolean instructions)</th>
<th>Max. no. of synchronized axes</th>
<th>Embedded communication networks (2)</th>
<th>Reference</th>
<th>Weight (kg/lb)</th>
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<td>Motion controllers</td>
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**TMS smart communication modules for Modicon M262 controllers**

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<th>Description</th>
<th>Reference</th>
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<tr>
<td>Ethernet smart communication module</td>
<td>For adding an Ethernet network Equipped with 4x RJ45 switched ports: - IIoT-ready - Network isolation - Ethernet Gigabyte exchange - Cybersecurity Achilles L1</td>
<td>TMSES4</td>
<td>0.403/0.888</td>
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<tr>
<td>CANopen smart communication module</td>
<td>For adding a CANopen master network Equipped with a 9-way SUB-D connector</td>
<td>TMSCO1</td>
<td>0.150/0.330</td>
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**Spare parts for Modicon M262 controllers**

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<th>Use for</th>
<th>Reference</th>
<th>Weight (kg/lb)</th>
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<tr>
<td>Set of screw connectors</td>
<td>I/O and power supply</td>
<td>TMA262SET8S</td>
<td></td>
</tr>
<tr>
<td>Set of spring connectors</td>
<td>I/O and power supply</td>
<td>TMA262SET8G</td>
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**Accessories for Modicon M262 controllers**

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<th>Designation</th>
<th>Description</th>
<th>Reference</th>
<th>Weight (kg/lb)</th>
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<tr>
<td>Secure Digital card</td>
<td>Application backup and program transfer Capacity: 256 MB</td>
<td>TMASD1</td>
<td>0.004/0.009</td>
</tr>
<tr>
<td>Grounding plate</td>
<td>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)</td>
<td>TM2XMTGB</td>
<td>0.045/0.099</td>
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**Connection cables**

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<th>Designation</th>
<th>Use from</th>
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<th>Length (m (ft))</th>
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<td>0.055/0.143</td>
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<td></td>
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<td>1.8 (5.90)</td>
<td>BMXXCAUSBH018</td>
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**Expansion modules**

- Modicon TM3 I/O expansion modules
  Please consult the catalog ref. DIA3ED2140109EN
- Modicon TM5, High-Performance and Safe IP20 Modular I/O System
  Please consult the catalog ref. DIA3ED2131204EN
- Modicon TM7, High-Performance and Safe IP67 Distributed I/O System
  Please consult the catalog ref. DIA3ED2140405EN

**Programming software**

- EcoStruxure Machine Expert V1.1
  Please consult the catalog ref. DIA3ED2180701EN

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(1) Modicon M262 controllers are supplied with removable spring terminal connectors 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) Unshielded, non-grounded cable. For use on temporary connections only. For permanent connections, use cable reference BMXXCAUSBH018.
Solution breakdown (1)

1. Magelis iPC: Touchscreen display
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. Power Meter
6. ConneXium Ethernet switch
7. Modicon TM3 Ethernet bus coupler
8. Lexium 32M servo drives and BMH/BSH servo motor
9. Altivar Machine ATV340S 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 load management system
14. Bar code reader
15. Telemecanique Sensors proximity sensors
16. Harmony® XB5 plastic pushbutton and Emergency stop

(1) Please refer to our catalogs on Digi-Cat (download Digi-Cat)

Available 4th quarter 2019
Modicon M262 Motion controller in a Tested Validated & Documented Architecture (TVDA)

Solution breakdown (1)

1. Magelis iPC: Touchscreen display and IIoT Edge Box
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 load management system
6. Lexium 32S servo drives and BMH/BSH servo motors
7. Altivar Machine ATV340S variable speed drives
8. Lexium 28 servo drives and BCH2 servo motors
9. Modicon TM3 Ethernet bus coupler
10. ConneXium 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. Bar code reader
15. Telemecanique Sensors proximity sensors
16. Power Meter
17. Harmony® XB5 plastic pushbutton and Emergency stop

(1) Please refer to our catalogs on Digi-Cat (download Digi-Cat)

▲ Available 4th quarter 2019
### Logic/Motion controller – Modicon M262
IIoT ready for performance machines

Product reference index

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