

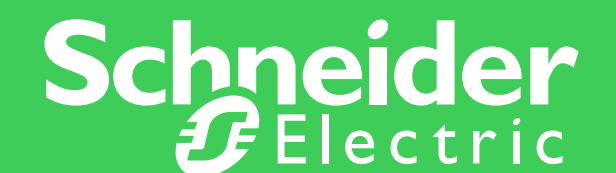
# Connecting I/O and the cloud for fast logic and motion performance



Modicon M262 controller

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# The Modicon M262 controller: a connectivity doorway for enabling smart machines

*“IoT is a catalyst in 49% of all business digital transformation projects in the manufacturing segment.” - IDC*



Remote visibility into machine performance enables machine builders to offer new global machine support services

IIoT is accelerating end user demand for technical support of industrial machines located across the globe. New, IIoT-ready digitized technologies, such as the Modicon M262 controller, address this requirement by providing cybersecure connectivity, data management and visibility to remote machines.

The Modicon M262 is designed and shipped with embedded cloud connectivity. No gateways are required. This opens the door to machine builders for managing both overall equipment efficiency and predictive maintenance, in a secure manner,

without having to send engineers to remote end user sites.

[EcoStruxure Machine Advisor](#), a digital services software platform, can provide insight to the Modicon M262 through libraries and protocols that are preconfigured and ready to use. This open platform allows machine builders to collect data from both Schneider Electric *and* 3<sup>rd</sup> party controllers, thereby expanding possibilities for generating end user services revenue.



# Modicon M262: a key that opens up to a greater digitization ecosystem

Digitization benefits are magnified when technologies are deployed within a holistic context

*“Services enabling improved machine learning and AI are radically transforming businesses’ usage and understanding of data.” – IHS Markit*



The Modicon M262 is a new, highly intelligent and flexible machine controller, which plays an important role in the overall IIoT-ready architecture called EcoStruxure Machine. Modicon M262 sits in the middle level of this architecture as an edge controller, which links to both connected products and to critical data analytics apps. Smart devices gather important performance data, utilize that data to optimize machine performance, and then analyze that data to predict trends.

The Modicon M262 is also analytics-friendly, both supplying and accessing data, so that operators can enhance both operational efficiency and drive unprecedented productivity.

This open digitization framework allows machine builders to drive productivity and competitiveness via embedded connectivity to the cloud. Machine builders can now maintain, and even reprogram, machines thousands of miles away without leaving their home country.

Machines can be registered into a digital service platform and OEMs can see machine locations, monitor component usage, identify firmware versions, and gather data surrounding the overall equipment efficiency and health. With powerful analytics, machine builders can predict and optimize the productivity and the availability of their machines.



# A controller 4 x faster in logic and 30% in motion\*

When the milliseconds count for application and communication, the Modicon M262 Controller responds with a dual core CPU

By using dedicated cores for application and for communication, the Modicon M262 is the fastest smart controller\* in the marketplace. Processing speeds range from 5 to 3 nanoseconds per instruction for application, and address in parallel, both communication and encryption. End users don't have to sacrifice machine performance when they want to connect to the internet, SCADA, or additional PLCs.

The Modicon M262 controller addresses logic application needs, and can also function as an "All-in-One" motion controller, embedding required features such as motion bus, encoder input and touch probes. With 4 to 16 synchronized axes, and a scalable motion-task cycle time as fast as 1ms (independent from communication tasks), the Modicon M262 Controller responds with high performance when addressing the demands of synchronized motion applications.

\* Compared to equivalent competition products



# Now, one controller for both logic and motion control

The Modicon M262 controller breaks new ground by providing flexible options across multiple environments

The new Modicon M262 is designed to leverage digitization speed and flexibility benefits by providing both logic and motion control functions in one controller. With built-in connectivity to both the cloud, to I/O systems, and to drives, the Modicon M262 acts as a key edge control element, linking apps to smart devices.

Modicon M262 also provides the ability to support multiple networks within one machine. Users often require one network to run their machine, another to connect machines to each other, and a third to connect to a plant

management system. Through support of multiple networks, the Modicon M262 helps end users avoid the issue of having one congested network that negatively impacts performance of their machine. This is an example of IT/OT convergence and is one of the ways the Modicon M262 provides significant business value.

[More about Modicon M262 controller](#)



*“Connected devices alone are not enough to accomplish true digital transformation. You need to develop a seamless ecosystem of humans and machines, performing optimized, end-to-end processes.”*  
-Cyril Perducat, EVP Schneider Electric



*“Transformative technologies, in combination rather than in isolation, will help enterprises address tangible operational challenges and create new business models.” – IHS Markit*



# Grow your business

Machine Builders, industry stakeholders and technology manufacturers are entering a new era. Industry 4.0 places new demands on all parties and, at the same time, is opening doors to higher productivity, new business growth opportunities, and new service business models.

Schneider Electric is well positioned to support machine builders and manufacturers with digital

transformation by offering expertise in open IIoT-ready architecture platforms such as EcoStruxure for Machine Builders, which link connected hardware and software products such as TeSys island, Modicon M262, and EcoStruxure Machine Advisor to both the cloud and to local edge environments. Together these technologies support machine builders, throughout the machine

lifecycle, by reducing time-to-market by up to 30% through simplified design and engineering, by driving 40% faster commissioning integration, and by generating up to 50% in diagnosis and corrective action time savings.

[Find out more about our OEM program](#)



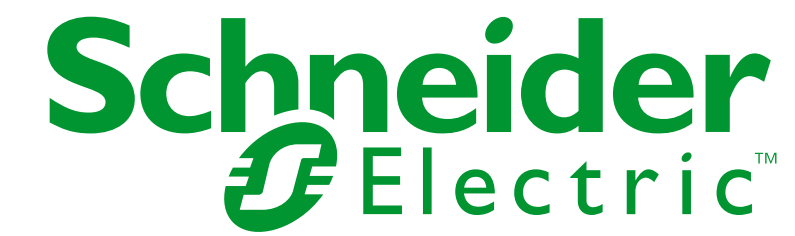
# EcoStruxure™ Machine

Innovation At Every Level



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Full IIoT machine integration with unprecedented efficiency.

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