



IRICHTRADING

Tel : 090-968-4835

ID Line : 0909684835



SoMachine Basic
for M221

Embedded communication

- Ethernet, RS 232/RS 485 serial link, USB mini-B programming port

Embedded functions

- Analog (PID control)
- Counting: Up to 4 high speed counters (HSC), 100 kHz frequency
- Position control (PTO), with trapezoidal and S-curve profile able to control either:
 - 2 or 4 axes in pulse direction (P/D) mode
 - 1 or 2 axes in CW/CCW mode
 - Pulse width modulation (PWM), Pulse generator (PLS), Frequency generator (FREQGEN)

Processing power

- Execution speed: 0.2 ms/Boolean instruction
- Program: 10 Boolean Kinstructions
- Number of words: 8,000. Number of internal bits: 1,024
- RAM: 640 K (256 K for internal variables and 256 K for application and client data)
- Flash memory: 2 MB (including 256 K for backing up the client application and data in the event of a power outage)



Modicon M221

Modicon M2xx Logic Controllers

Modicon M221

For hardwired architectures. Achieve benchmark performance while increasing profitability with the Modicon M221 PLC, the most complete controller in the new Modicon range

SoMachine Basic software

SoMachine Basic programming software is a user-friendly tool designed to develop projects on Modicon M221 or Modicon M221 Book logic controllers. It can convert applications created on TwidoSuite and TwidoSoft.

Feature:

- User-friendly and Easy to use with 4 step: Select model, Programming, Download and Commissioning
- Four programming language: Somachine Basic can be programmed in
 - Instruction List (IL) language
 - Ladder (LD) language
 - Grafset graphic language
 - Structured Text (ST) operations

Other function:

- With high speed counter, Data logging, PID, Timer & Counter
- Convert from Twido to Modicon M221 and other

Free software programming :

- Can download free on Schneider Electric website

A Classic PLC Reborn

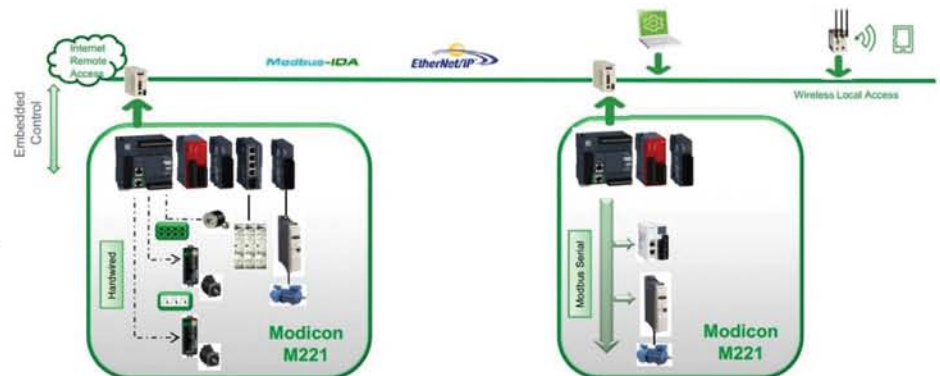


Modicon Twido PLC



Modicon M221 PLC

900ns / instruction	Processing Speed	200ns / instruction	4.5X Faster
3K	Max Instructions	10K	3X More
NO	Ethernet on all	YES	
YES	Easy Software	YES	
\$5	Price	\$5	



Modicon M340 automation platform

Modicon M340 processors



BMXP341000



BMXP342000



BMXP3420102



BMXP3420102CL



BMXP342020



BMXP3420302



BMXP3420302CL



**SoMachine
for M241**

Key features

- Removable screw terminal blocks, supplied with the controllers.
- A Run/Stop switch is available on each M241 controller.
- A SD memory card (Secure Digital card) is available on each M241
- A slot integrated in each M241 controller can take up to 2 cartridges of the following
 - Analog input or output expansion cartridges
 - Application cartridges: hoisting or packaging

Embedded communication

- have up to 5 integrated communication ports: Ethernet with embedded Web server function, CANopen (master), 2 serial links, Programming port

Embedded functions

- PID control
- 8 high-speed counter (HSC) inputs, 200 kHz frequency
- 4 position control outputs for: P/D, CW and CCW pulse train (PTO) with trapezoidal profile and
- S curve, 100 kHz frequency pulse width modulation (PWM), frequency generator (FG)



Modicon M241

Processing power

- Execution speed: 22 ns/boolean instruction
- Program: 128 K boolean instructions
- DualCore CPU
- RAM: 64 MB
- Flash memory: 128 MB

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Modicon M241

logic controllers are designed for high-performance compact Embedded Ethernet port offering FTP and web server services, meaning they can easily be integrated in control system architectures for remotemonitoring and maintenance of machines by means of applications for smartphones, tablets and PCs.



**SoMachine
for M251**

Main functions

- Modicon M251 controllers have no embedded I/O but can be combined with Modicon TM3 expansion modules.
- M251 controller has a Run/Stop switch.
- A slot for an industrial SD memory card (Secure Digital card) is available on every M251 controller.

Embedded communication

- M251 logic controllers incorporate up to 5 communication ports:
 - "Ethernet 1" network with 2 RJ 45 ports connected by an internal switch, this network being mainly for communication between machines or to your factory network
 - "Ethernet 2" network with an RJ 45 port, optimized for connecting field devices (variable speed drives, distributed I/O, etc.) by means of the Ethernet I/O Scanner service (Industrial Ethernet Manager). This port can also be connected to a factory network.
- CANopen port (CANopen master/SAE J1939 Request Manager) for connecting field devices (variable speed drives, distributed I/O, etc.)
- serial link port
- programming port



Modicon M251

Processing power

- Execution speed: 22 ns/Boolean instructions
- Program: 128 Boolean instructions
- DualCore processor
- RAM: 64 MB Flash memory: 128 MB
- Program size: 10 MB for application and symbols

Modicon M251

Controllers offer an innovative, high-performance solution in the field of modular machines and distributed architectures. Embedded Ethernet port offering FTP Client/Server, Web Server, SQL Client, SNMP Client/Server V1 and V2, OPC UA Server, Sntp Client and DNS Client services



SoMachine software platform

SoMachine software

Simplify machine programming and commissioning

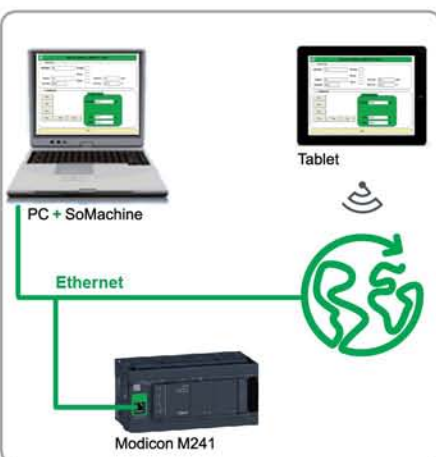
SoMachine is the machine builder's solution software for developing, configuring, and commissioning the entire machine in a single software environment, including logic, motion control, HMI, and related network automation functions

Feature

- One software package, One project file, One connection and One download operation
- With Six programming language, Commissioning and network feature that you can programming all PLC in same network with 1 plug-in only
 - IL (Instruction List)
 - LD (Ladder Diagram)
 - SFC (Sequential Function Chart)
 - ST (Structured Text)
 - FBD (Function Block Diagram)
 - CFC (Continuous Function Chart)
- Support IEC 6131
- With build-in Web server (For M241 and M251) that can control process via web browser.

The Flexible and Scalable Control Platforms offer includes:

- **Controllers:**
 - Modicon logic controllers: M238, M241, M251, M258
 - Modicon motion controllers: LMC058, LMC078
 - HMI controllers: Magelis SCU, XBTGC, XBTGT/GK
 - Drive controller: Altivar IMC
- **I/O modules:** Modicon TM2, Modicon TM3, Modicon TM5, and Modicon TM7 offers
- **HMIs:**
 - Magelis™ STO/STU Small Panels
 - Magelis™ GH/GK/GT Advanced Panels
 - Magelis™ GTO Optimum Advanced Panels
 - Magelis™ GTU Universal Panels



Web visualization



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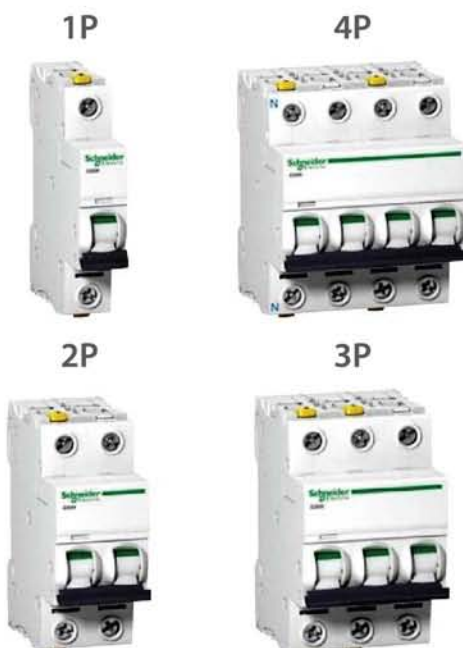
Miniature Circuit Breakers ACTI 9



iC60N circuit breakers are multi-standard circuit breakers which combine the following functions:

- Circuit protection against short-circuit currents,
- Circuit protection against overload currents,
- Suitable for industrial isolation according to IEC/EN 60947-2, standard.
- Fault tripping indication by a red mechanical indicator in circuit breaker front face.

iC60N range



Rating (In) 0.5 to 63 A

C120N range



Rating (In) 80 to 125 A

Motor Starter

Enclosed Motor Starters



TeSys GV2-ME
Thermal magnetic motor circuit breakers

Enclosed Motor Starters



TeSys GV2
Magnetic and thermal magnetic motor circuit breakers up to 15 kW



TeSys GV3
Magnetic and thermal magnetic motor circuit breakers up to 30 kW

Contactors & Protection Relays

Contactors & Reversing Contactors



TeSys D
Contactors and reversing contactors up to 75 kW/400V and 250 A/AC1

Thermal Overload Relays



TeSys LRD
Thermal overload relays up to 75 kW / 400 V

Interface, Measurement & Control Relays

Automation Relays



Zelio Control
Measurement and control relays RM4-RM17-RM35



Zelio Relay
Plug-in relays Electromechanical and Solid state relays



Zelio Time
Electronics timers, Timing relays, to create simple hard-wired logic automated system cycles or to complement industrial programmable controllers.

Switch Mode Power Supplies

Phaseo Easy



ABL2
Single phase power supplies 100 V to 240 V from 35 to 350 W

Control Stations

Pendant Control

XAC-A
Pendant control stations for Ø 22 mm plastic signaling units



Plastic Control

XALD, XALK
Plastic control stations and enclosures for Ø 22 mm plastic signaling units (XB5)



Tower Light

Modular

XVM
Ø 45 mm pre-wired modular tower light (up to IP54)



Monolithic

XVC
Ø 100 mm Pre-assembled and pre-cabled tower lights



XVG
Ø 60 mm Pre-assembled/pre-cabled tower lights Variable composition tower lights for customer assembly of up to 4 units



Pushbuttons Switches Pilot Light

Harmony

XB4
Ø 22 mm metal pushbuttons, switches, pilot lights



XB5
Ø 22 mm plastic pushbuttons, switches, pilot lights



XB6
Ø 16 mm plastic pushbuttons, switches, pilot lights



XB7
Ø 22-25 mm monolithic pushbuttons, switches, pilot lights



Harmony Easy

XA2 **ECO STRONG**

Ø 22 mm Plastic push-buttons, switches, pilot lights



Pushbuttons



Illuminated Pushbuttons

Selector Switches

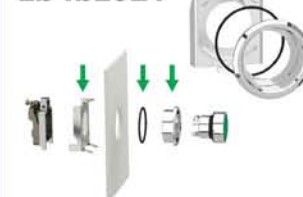
Key Pushbuttons

Pilot lights



Accessory

zb4bz021



xb5az021





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Wireless and batteryless Pushbuttons Harmony® XB5R



- Easy and fast installation
- Maintenance-free
- Robust design for industrial environments
- Eco-friendly green technology

Only 1 transmitter per receiver

Up to 32 transmitters per receiver



Plastic head

XB5RFB01

Metal head

XB4RFB01

- Transmitter with plastic or metal push button
- Non-programmable receiver, 1 relay output



Plastic head

XB5RFA02

Metal head

XB4RFA02

- Transmitter with plastic or metal push button
- Set of 10 push button caps
- Programmable receiver, 2 relay outputs



Plastic head

XB5RMB03

- Transmitter with plastic push button ZB5R in ergonomic enclosure
- Non-programmable receiver, 1 relay output



Plastic head

XB5RMA04

- Transmitter with plastic push button ZB5R in ergonomic enclosure
- Set of 10 push button caps
- Programmable receiver, 2 relay outputs

Harmony® eXLhoist wireless remote control



8 pushbuttons
(2 auxiliary)
LEDs



XARS8L12W Simple auxiliary functions
12 output relays Wiring connections

XARS8L12H Simple auxiliary functions
12 output relays Industrial plug connections

8 pushbuttons
(2 auxiliary)
Display



XARS8D18W Simple auxiliary functions
18 output relays Wiring connections
18 digital inputs Dedicated safety functions

XARS8D18H Simple auxiliary functions
18 output relays Industrial plug connections
18 digital inputs Dedicated safety functions

12 pushbuttons
(6 auxiliary)
Display



XARS12D18W Extended auxiliary functions
18 output relays Wiring connections
18 digital inputs Dedicated safety functions

XARS12D18H Extended auxiliary functions
18 output relays Industrial plug connections
18 digital inputs Dedicated safety functions

Allows you to control your load with a single hand and combine easily your movements.