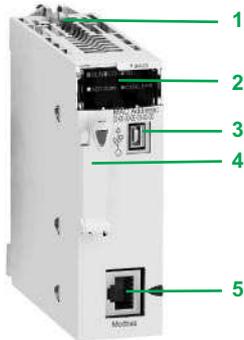
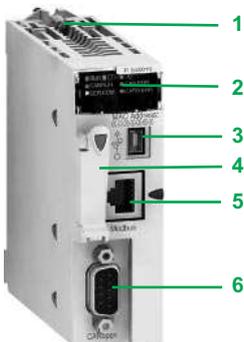


# Modicon M340 automation platform

## Processor modules



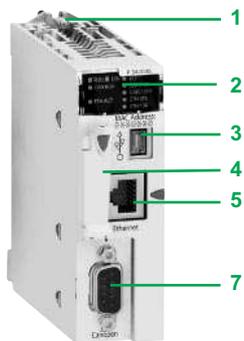
BMX P34 1000



BMX P34 2010/20102



BMX P34 2020



BMX P34 2030/20302

### Description of BMX P34 1000/2000/2010/20102 processors

**BMX P34 1000/2000/2010/20102** Standard and Performance single-format processors have the following on the front panel:

- 1 Safety screw for locking the module in its slot (marked 0) in the rack
  - 2 A display block comprising 5 or 7 LEDs, depending on the model:
    - RUN LED (green): Processor running (program executing)
    - ERR LED (red): Processor or system fault
    - I/O LED (red): I/O module fault
    - SER COM LED (yellow): Activity on the Modbus serial link
    - CARD ERR LED (red): Memory card missing or faulty
- With, in addition, for model **BMX P34 2010/20102**:
- CAN RUN LED (green): Integrated CANOpen bus operational
  - CAN ERR LED (red): Integrated CANOpen bus fault
- 3 A mini B USB connector for a programming terminal (or Magelis XBT GT/GK/GTW HMI terminal (1))
  - 4 A slot equipped with Flash memory card for backing up the application (an LED, located above this slot, indicates recognition of or access to the memory card)
  - 5 An RJ45 connector for the Modbus serial link or Character mode link (RS 232C/RS 485, 2-wire, non-isolated)

With, in addition, for model **BMX P34 2010/20102**:

- 6 A 9-way SUB-D connector for the integrated CANOpen master bus

### Description of BMX P34 2020/2030/20302 processors with integrated Ethernet Modbus/TCP port

**BMX P34 2020/2030/20302** Performance single-format processors have the following on the front panel:

- 1 Safety screw for locking the module in its slot (marked 0) in the rack
- 2 A display block comprising 8 or 10 LEDs, depending on the model:
  - RUN LED (green): Processor running (program executing)
  - ERR LED (red): Processor or system fault
  - I/O LED (red): I/O module fault
  - SER COM LED (yellow): Activity on the Modbus serial link
  - CARD ERR LED (red): Memory card missing or faulty
  - ETH ACT LED (green): Activity on the Ethernet Modbus/TCP network
  - ETH STS LED (green): Ethernet Modbus/TCP network status
  - ETH 100 LED (red): Ethernet Modbus/TCP data rate (10 or 100 Mbps)

With, in addition, for model **BMX P34 2030/20302**:

- CAN RUN LED (green): Integrated CANOpen bus operational
  - CAN ERR LED (red): Integrated CANOpen bus fault
- 3 A mini B USB connector for a programming terminal (or Magelis XBT GT/GK/GTW HMI terminal (1))
  - 4 A slot equipped with Flash memory card for backing up the application (an LED, located above this slot, indicates recognition of or access to the memory card)
  - 5 An RJ45 connector for connection to the 10BASE-T/100BASE-TX Ethernet Modbus/TCP network

Also included, depending on the model:

- 6 **BMX P 34 2020** processor: An RJ45 connector for the Modbus serial link or Character mode link (RS 232C/RS 485, 2-wire, non-isolated)
- 7 **BMX P 34 2030/20302** processor: A 9-way SUB-D connector for the integrated CANOpen master bus

**On the back panel** there are two rotary switches for assigning the IP address which is defined in one of 3 ways:

- Address set by the position of the two switches
- Address set by the application parameters
- Address set by the Ethernet Modbus/TCP network BOOTP or DHCP server

### USB terminal port

The USB port 3, offering a useful data rate of 12 Mbps, is compatible with Unity Pro programming software, the OPC Factory Server (OFS) data server and Magelis XBT GT/GK/GTW HMI terminals (1).

All **BMX P34** processors can be connected to a USB bus comprising several peripheral devices. However:

- Only one processor must be connected to the USB bus
- No device on the USB bus can be controlled by the PLC (modem, printer)

(1) Magelis XBT GT/GK/GTW graphic terminals with USB port and Vijeo Designer configuration software version  $\geq$  4.5. Please consult our "Human Machine Interfaces" catalogue.