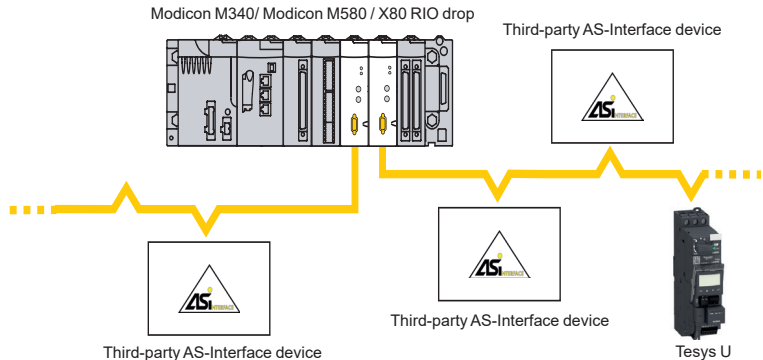




Presentation

The **BMXEIA0100** server module for AS-Interface cabling system provides the AS-Interface system server function for the Modicon automation platform.



The AS-Interface cabling system consists of a server station and client stations. The server supporting the AS-Interface profile interrogates the devices connected on the AS-Interface line one-by-one and stores the information (actuator/sensor status, device operating status) in the PLC memory. Communication on the AS-Interface line is managed totally transparently in relation to the application PLC program.

The **BMXEIA0100** module supports the latest management profile for AS-Interface devices (*AS-Interface V3*), which is able to manage level V1, V2, and V3 AS-Interface clients:

- Discrete client devices (up to 62 devices of 4 inputs/4 outputs organized in 2 banks (A/B) of 31 addresses each)
- Analog devices (up to 31 devices (4 channels) in bank A)
- Safety interfaces (up to 31 devices in bank A)

An AS-Interface power supply is essential for powering the various devices on the line. Ideally it should be placed near stations that consume a great deal of energy. Please refer to the "Phaseo AS-i ABL Single phase power supplies 2.4 and 4.8 A for AS-Interface wiring system" catalog.

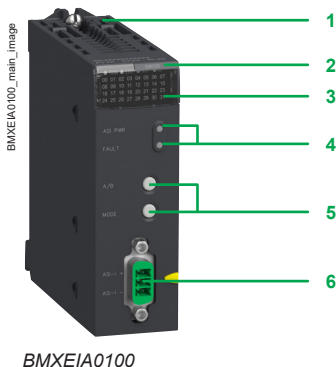
A Modicon M340 Performance configuration with a **BMXP3420●0/20●02** processor or a Modicon M580 configuration with a **BMEP58●●●●** processor can take 4 **BMXEIA0100** modules. A Standard configuration with **BMXP341000** processor can take 2 **BMXEIA0100** modules.

Description

The **BMXEIA0100** AS-Interface module is standard format (1 slot). Its housing provides IP20 protection of the electronics and it is locked into each rack slot (0111) by a captive screw.

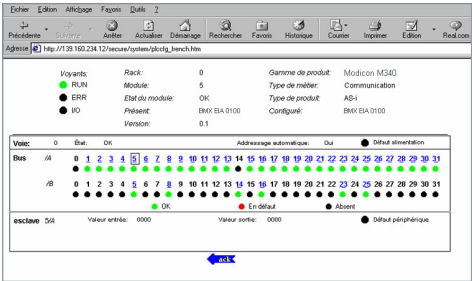
The front panel of the **BMXEIA0100** AS-Interface module features:

- 1 A rigid body providing support and protection for the electronic card
- 2 A module reference marking
- 3 A display block with 5 LEDs indicating the module operating modes:
 - RUN (green): Module running
 - ERR (red): Detected module fault
 - A/B (green): Displays the group of 31 clients
 - I/O (red): Detected I/O fault on AS-Interface line
 - 32 LEDs for diagnostics of the AS-Interface line and each client connected on the line depending on the A/B pushbutton selection (1)
- 4 2 LEDs marked ASI POWER and FAULT: AS-Interface external power supply present and detected AS-Interface line fault (see diagnostics on [page 8/5](#))
- 5 Two pushbuttons marked A/B and MODE (see diagnostics on [page 8/5](#))
- 6 A 3-way male SUB-D connector for the AS-Interface cable (female screw clamp connector supplied)



BMXEIA0100

(1) Depending on whether A or B is selected, this displays either the first 31 clients (standard addressing) or the last 31 clients (extended addressing).



Rack function display in Web browser

Diagnostics

The two LEDs **4** on the module front panel are used in conjunction with the two pushbuttons **5** for module diagnostics:

LEDs		Pushbuttons	
4 ASI PWR: AS-Interface power supply present	4 FAULT: Detected AS-Interface line fault	5 A/B: Selects the group of clients on the display block 3	5 MODE: Module Offline/Online

The display block on the front panel of the **BMXEIA0100** server module can be used to perform simplified local diagnostics by displaying the client devices present on the AS-Interface line.

Detailed diagnostics of each client device is also possible using:

- An adjustment terminal (1)
- A Web browser using the Rack Viewer function in the standard Web server on the Modicon X80 modules. For further information, please consult [our website](#).

References

Modicon X80 AS-Interface module

Description	Usage	Reference	Weight kg/lb
AS-Interface module supplied with 3-way male SUB-D connector	M4 AS-Interface profile for level V1, V2, and V3 clients	BMXEIA0100	0.340/ 0.750

(1) For instance, see our Bihl+Wiedemann partner offer.