The CMMB-IP is a cost-effective I/O expansion module with BACnet, Modbus and IP communication for easy integration of non-intelligent inputs and outputs. Combining the 20 inputs and outputs of the CMMB-IP with your Building Automation System provides a straightforward extension of multiple existing controllers and reduces the unnecessary cost of additional components.

Using an embedded web server, the network settings of the I/O module can easily be configured from a remote location. When a more versatile expansion controller is required, the optional LCD display and integrated router make the CMMB-IP the best technological choice for a wide range of applications. The I/O module will help you improve reliability, increase productivity and reduce your costs.

**MODELS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Router</th>
<th>Display</th>
<th>Communication Ports</th>
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</tbody>
</table>

Connect up to 64 BACnet MS/TP devices to an IP network using the CMMB-IP’s built-in routing functionality. Available with either one or two MS/TP ports.

**APPLICATIONS**

The CMMB-IP is an ideal choice for a variety of applications in the HVAC industry, including use as a:

- BACnet/IP Router With 2 MS/TP Ports
- BACnet MS/TP Device
- Modbus TCP/IP Device
- Modbus RTU Device
APPLICATION EXAMPLES

BACnet/IP Router with 2 MS/TP Ports

BACnet MS/TP Device
FEATURES

Power & Communication
- 24Vac or 24Vdc supply
- Up to 2 RS-485 communication ports for BACnet MS/TP or Modbus RTU
- BACnet IP/Ethernet or Modbus TCP/IP
- Automatic baud rate detection
- Automatic device instance configuration

BACnet MS/TP
- MS/TP @ 9600, 19200, 38400 or 76800 bps
- Automatic baud rate detection
- Automatic device instance configuration

BACnet IP/Ethernet
- All IP / Ethernet configuration via on board WEB page
- Display device status including each available data point, in addition to the BACnet object interface.
- Supports DHCP or fixed/static addressing

Modbus
- Modbus @ 9600, 19200, 38400 or 57600 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- Connects to any Modbus master

Modbus TCP/IP
- Connects to any Modbus TCP/IP master controller

10 Inputs
- 2 binary inputs
- 8 universal inputs

10 Outputs
- 6 binary outputs
- 4 analog outputs
- Supervised manual override of outputs (MOA) via local web page or local dip switches

Other
- SD card slot for updates
- USB port for 5 Vdc power supply
- RJ45 Ethernet connection for IP and WEB services

LOCAL WEB PAGE

The CMMB-IP offers an integrated web page that allows remote control over the I/O module’s network settings. Users can easily perform the following actions:
- Override outputs
- Configure function parameters
- Configure network settings