



20P Server Class IP Controller

BM-CS-20P



The BM-CS-20P is a high performance server class controller with a 1.2 GHz quad core processor, 512 MB RAM and 8GB flash memory, powerful capabilities with HTML5 graphics and multifunctional adapter widgets. The built-in VPN client/server allows for secure remote connectivity, in line with your clients corporate policy, it is a unique feature for BMS controllers. The BM-CS-20P supports IT standards, such as IPv6, 802.1x, MQTT and REST API.

The BM-CS-20P has incomparable industry performance, allows for flexible design, and is a natural extension on the already successful CS series controllers permitting secure integration at a BMS and IoT level. The BM-CS-20P is freely and live programmable via the Datas PT Tools and supports all BMS protocols such as BACnet, Modbus, Sox, TCom and can be integrated to leading head ends and enterprise management systems.

CHARACTERISTICS

Main Processor	1.2 Ghz Quad Core ARM A7
Processor	ARM Cortex A0 48 Mhz
Flash Memory	8 GB
RAM	512 MB
SD card Holder	Yes. For Application backup Storage.
Ethernet	1 x Ethernet Port
RS 485 Ports	2 x RS485
Real Time Clock (RTC)	Real Time Clock with min 5 days backup by superCAP
Power Failure Protection	SuperCap Apps Safety Backup





TECHNICAL SPECIFICATION

BM-CS-20P

Power Supply	24V AC +/- 5% or 24V DC +20%/-15%
Consumption	18vA
Current Rating	500mA at 24VAC/VDC
Operating temp	0 to 65 °C (32 to 150 °F)
Storage temp	-20 to 85 °C (-4 to 185 °F)
Operating humidity	10% to 95% relative humidity non-condensing
Dimensions	198 x 104 x 44 mm (8,5 x 4,9 x 1,7 inch)
Weight	436g

Inputs & Outputs:

Universal input	<p>12xUI, 12-Bit ADC with PGA</p> <p>5 modes:</p> <p>Resistance mode: 500 - 500K Ohms (+/- 10 Ohms)</p> <p>Voltage mode: 0-10V (+/- 0.05V)</p> <p>Current mode: 0-20mA DC (+/- 0.01 mA)</p> <p>Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)</p>
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Digital mode: Voltage Free Contact

Digital output	<p>2xDO (with LED Indicator)</p> <p>Type: Relay Contacts, SPST NO, 48VA/2A at 24V</p>
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Universal Output	<p>6 x UO, 12 bit DAC</p> <p>3 modes:</p> <p>Voltage mode: output range 0-10V DC, Minimum Load Impedance 2,000 Ohm Maximum 5ma current draw</p> <p>Current mode: 0-20mA, Maximum Load Impedance 800 Ohm</p> <p>Digital mode: maximum sinking current 200mA for Switching Relays</p>
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Communication:

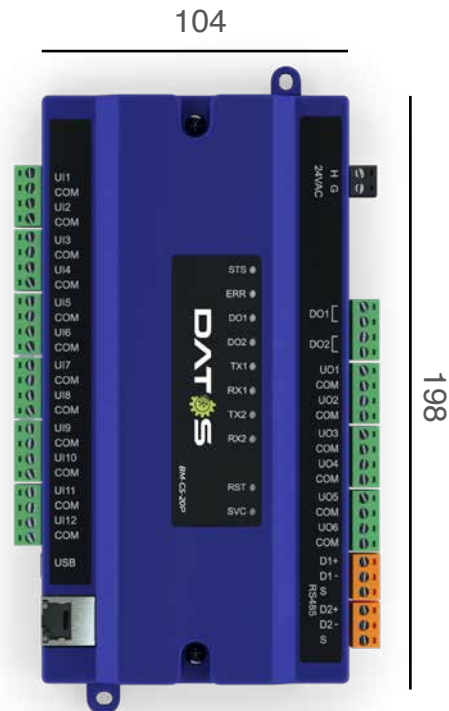
Modbus Baud Rate	<p>Speed: (9.6K, 19.2k, 38.4K, 57.6K)</p> <p>Data Bits: 8, Parity: Odd, Even, None</p>
BACnet Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 76.8K),
Ethernet	10Base-T/ 100Base-T interface, half or full duplex



FEATURES

- On board 8GB of EMMC for storage and history storage
- Support IPv4, IPv6, DHCP Client
- BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/Slave, Modbus TCP Master/Slave, TCOM, SOX
- Datas Peer to Peer Protocol, compatible with CS, CH, CW Series
- Built in web server with HTML5 compatible and SSL certificate support
- Supports MQTT , RESTful API and other web services
- Built-in VPN Server and Client
- Enterprise Network Security 802.1x and TLS 1.2
- Support Network Time Protocol (NTP) client
- SMTP protocol (outgoing email) with SSL authentication
- SQL Lite up to 100,000 records
- Built in dashboard (Freeboard)

Dimensions



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