

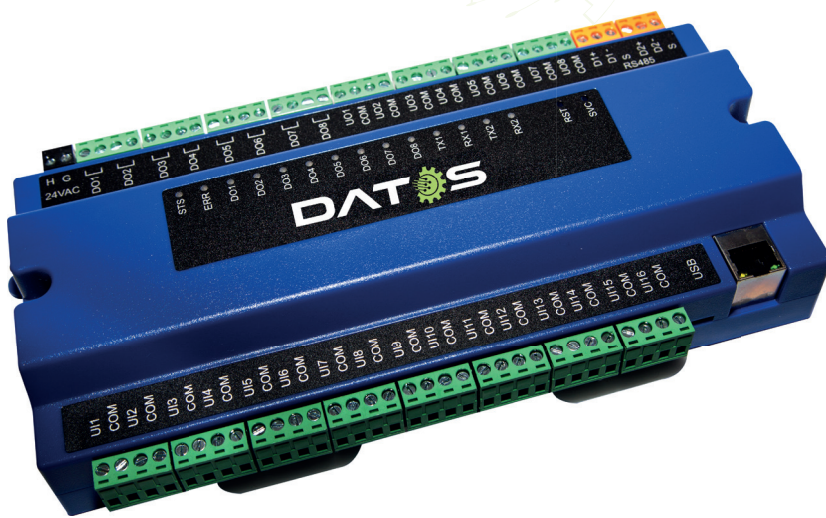


CONTROLLER SERIES

High performance server class controller

BM-CS-32P

32 POINTS



The BM-CS-32P is a high performance server class controller with a 1.2 Ghz quad core processor, 512 MB RAM and 8GB flash memory. Its software capabilities are very powerful with HTML5 graphics and multifunctional adapter widgets. The built-in VPN client and server makes your connectivity safe and unique for BMS controllers.

And of course, the BM-CS-32P has and can do everything you expect from an DATOS controller: it's freely and live programmable via Programming Tools (PT), it supports protocols and services such as BACnet, Modbus, Sox, Haystack and TCOM and it has a built-in HTML5 web server.

SPECIFICATION

- 1.2 Ghz Quad Core ARM A7 main processor
- 48 Mhz ARM Cortex-M0 processor for the I/O
- 512MB Gbyte RAM
- 8GB NAND Flash
- SD card holder
- 1 x 10/100 Ethernet Port
- 1 x Mini USB
- 2 x RS485
- Real Time Clock
- SuperCap Apps Safety Backup
- 24V AC/DC Power
- 16 x UI
- 8 x DO/LED for Status
- 8 x UO (200mA sink for Switching Relays)
- Remote Flash Upgrades





TECHNICAL SPECIFICATION

BM-CS-32P

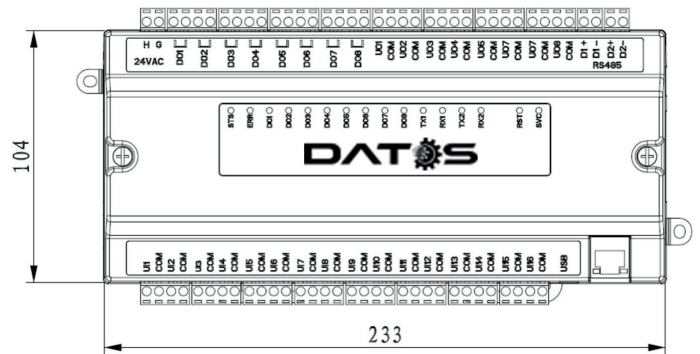
Power Supply	24vAC +/- 5% or 24v DC +20%/-15%
Consumption	18vA
Current Rating	750mA at 24vAC/vDC
Operating temp	0 to 65 °C (32 to 150 °F)
Storage temp	-20 to 65 °C (-4 to 150 °F)
Operating humidity	10% to 95% relative humidity non-condensing
Dimensions	233 x 124 x 44 mm (9.2 x 4.9 x 1.7 inch)
Material	UL Approved Plastic
Weight	800g
Inputs & Outputs:	
Universal input	16xUI 12-Bit ADC (with PGA) 5 modes: Digital Mode: Voltage free contact input. Resistance Mode: Input range 500 - 500 K Ohms. Voltage Mode: Input range 0-10V Current Mode: Input range 0-20mA. Pulse Count Mode: Maximum pulse frequency: 20Hz
Digital output	8xDO (with LED's for status) Relay output with contact rating 1A 30vDC
Universal Output	8xUO 3 modes: Voltage Mode: Output range 0-10V. Current Mode: Output range 0-20mA. Digital Mode: Maximum sinking current 200mA.
Communication:	
Physical Interface (Port 1 & 2)	1 & 2 EIA-485 (BUS A,B) Two-wire, Half Duplex
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd)
BACnet Baud Rate:	Speed: (9.6K, 19.2k, 38.4K,78.6K), Data Bit: (8 bits), Parity: (None)
Ethernet Support	IP, TCP, UDP, ICMP, HTTP, FTP
Application Support	Sox, TCOM, Modbus, BACnet and Haystack



FEATURES

- Power – 2 Processors, main processor increased to 1.2 Ghz Quad Core
- Memory/Storage – 8GB EMMC on board and massive history storage
- Supports BACnet, TCOM, Modbus, Haystack and web services
- Built-in VPN client & server (in development)
- Programmable gain amplifiers for all UI channels for higher precision at lower range.
- Nginx Web Server Engine with latest features

Dimensions



Wiring Diagram

