



MCS-NitroMag-DOOR

Description & Specifications



Part # MCS-NitroMag-DOOR

Description

The **MCS-NitroMag-DOOR** is a control system containing a Keypad, a processor, memory, eMMC Flash, and supporting power circuitry. The Broadcom quad-core processor delivers a blazing speed of 1.5GB.

The **MCS-NitroMag-DOOR** features an easy-to-use keypad with three function keys, four directions keys and two selection keys (Menu & Enter).

The display LCD is 128 x 64 dot pixel graphics, 2.8" diagonal viewing area with White characters on a dark background (reversible). Includes a NEMA Type 1 faceplate for easy mounting to an enclosure door.

The MCS-NitroMag-DOOR controller allows for 144 SI inputs, 90 RO outputs, and 36 AO outputs. (Expansion Boards required).

It comes with a built-in WiFi interface for Ethernet connectivity, and an onboard WiFi antenna mounted on the front.

Includes a **Modbus interface** which enables it to act as a Modbus Master using the Modbus RTU protocol, which allows communication with Modbus slave devices for parameter access.

It features various connection ports for:

- 2 HDMI ports (1 Standard & 1 Micro)
- WiFi antenna connection
- 12vdc power input connection
- Ethernet port (10 Mbps/100 Mbps/1Gbps)
- Two RS-485 Ports up to 115200 baud rate
- MCS-IO port for communicating with expansion boards

Specifications

Keypad Door

Dimensions.....7.25"w x 8.50"h 1.42"d
(184.15 mm x 215.9 mm x 36.17 mm)
Mounts using supplied #6-32 Kep nut

Display..... 128 x 64 dot pixel STN
monochrome graphics LCD
with 2.8" diagonal viewing area

ColorWhite characters on a blue
background (Reversible)

Keypad Size5.26"w x 8.50"h (8 mounting studs)

Keypad Layout..... 9 keys (3 function keys)

Operating Temperature....-4°F to +185°F (-20°C to +85°C)

Operating Humidity.....0-95% Non-Condensing

Controller

Microprocessor..... Broadcom BCM2711 quad core
Cortex (ARMv8) 64-bit SoC @ 1.5Ghz

INPUT	MINIMUM	NOMINAL	MAXIMUM
VOLTAGE	10	12	12.5
AMPS			0.5

Flash Memory 16 GB EMMC

RAM 2 GB DDR3

MCS-I/O Comm Port. 1 @ 38,400 baud

RS-485 Ports. 2 @ go up to 115200 baud rate

Ethernet..... 10 Mbps/100Mbps/1Gbps

HDMI 2 HDMI 2.0 ports-Standard and Micro

WiFi2.4 GHz, 5.0GHz 8.02 b/g/n/ac wireless

USB 2 USB type B 2.0 ports 480Mbps signalling

Protocols.....BACnet IP, BACnet MSTP, Modbus IP,
Modbus RTU Slave, Modbus RTU Master
(BTL certification coming soon)

Real Time Clock Battery backup(Type BR2032)

Power DetectionAutomatic power fail reset

POWER SUPPLY NOT INCLUDED

Ship Weight 2.00 lbs (approx)

Box Dimensions..... 9" x 6-1/2" x 2-3/4" (approx)