

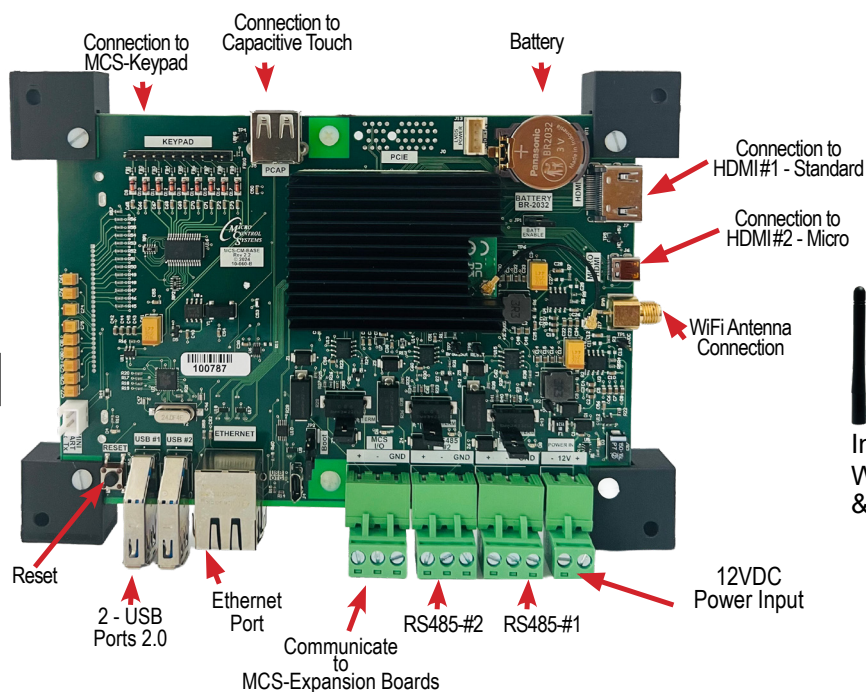


# MCS-NitroMag-N

## Description & Specifications



Part # MCS-NitroMag-N



Included:  
WiFi Antenna  
& extended cable

### Description

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

The MCS-NitroMag-N controller connects with MCS Expansion boards and Extension boards, allowing for a maximum of 144 SI inputs, 90 RO outputs, and 36 AO outputs.

With dimensions of 6.15" w x 4.24" h x 0.93" d (156mm w x 108mm h x 23.6mm d), it fits in a panel with room for additional expansion boards.

The MCS-NitroMag-N comes with a built-in WiFi interface for Ethernet connectivity, and an onboard WiFi antenna connection.

Includes a **Modbus interface** which enables it to act as a Modbus Master using the Modbus RTU protocol, which allows communication with up to 20 Modbus slave devices for parameter access.

#### ***It features various connection ports for:***

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

Ship Weight .....2.00 lb (approx)

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

### Specifications

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Dimensions.....           | 6.15" w, x 4.24" h, x 0.93" d<br>(156mm w, x 108mm h, x 23.6mm d) |
| Mounting.....             | 4 screws w/mounting feet                                          |
| Operating Temperature.... | -40°F to +185°F (-40°C to +85°C)                                  |
| Operating Humidity.....   | 0-95% Non-Condensing                                              |
| Microprocessor.....       | Broadcom BCM2711 quad core<br>Cortex (ARMv8) 64-bit SoC @ 1.5GHz  |

| INPUT   | MINIMUM | NOMINAL | MAXIMUM |
|---------|---------|---------|---------|
| VOLTAGE | 10      | 12      | 12.5    |
| AMPS    |         |         | 0.5     |

|                         |                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------|
| Flash Memory .....      | 16 GB EMMC                                                                                    |
| Memory Chip.....        | 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/100 Mbps/1 Gbps                                                                       |
| HDMI .....              | 2 HDMI 2.0 ports-Standard and Micro                                                           |
| WiFi .....              | 2.4 GHz 8.02 b/g/n/ac wireless                                                                |
| USB .....               | 2 USB type B 2.0 ports 480Mbps signaling                                                      |
| Protocols.....          | BACnet IP, BACnet MSTP, Modbus IP,<br>Modbus RTU Slave, Modbus RTU Master (BTL certification) |
| Real Time Clock .....   | Battery backup(Type BR2032)                                                                   |
| Power Detection .....   | Automatic power fail reset                                                                    |

### Packaging

- 4 (four) mounting feet with 4 screws,
- 2 Nylon standoffs
- WiFi Antenna w/cable & extended cable



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