

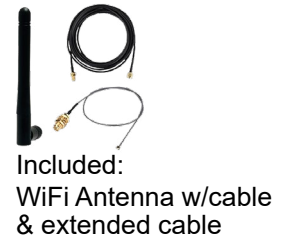
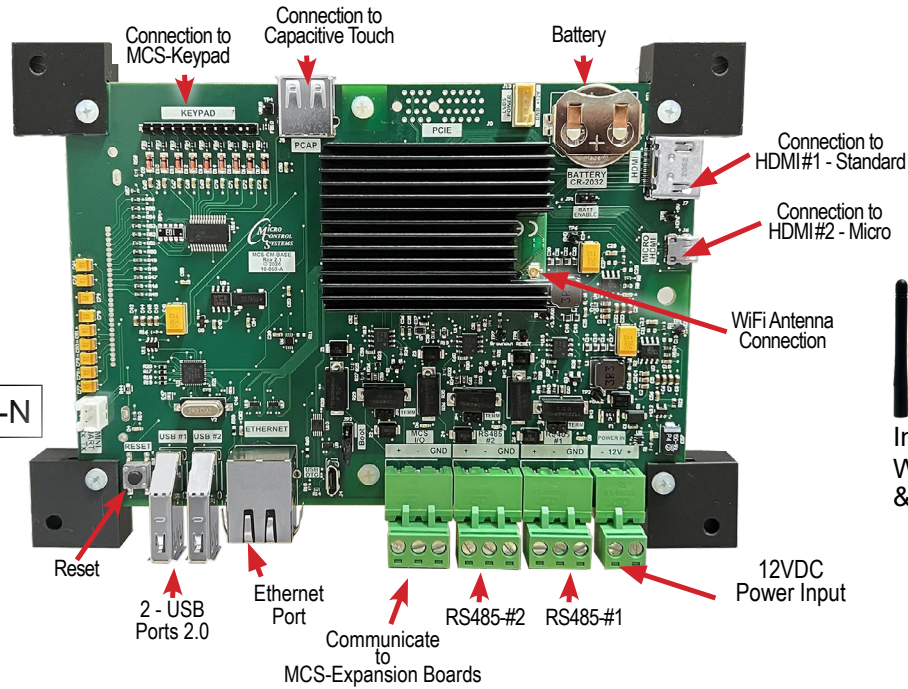


MCS-NitroMag-N

Description & Specifications



Part # MCS-NitroMag-N



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 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/1Gbps)
- Two RS-485 Ports up to 115200 baud rate
- MCS-IO port for communicating with expansion boards

Ship Weight2.00 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
(156mm w, x 108mm h, x 23.6mm d)
Mounting..... 4 screws w/mounting feet
Operating Temperature.... -4°F to +185°F (-20°C to +85°C)
Operating Humidity..... 0-95% Non-Condensing
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
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/1Gbps
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,
Modbus RTU Slave, Modbus RTU Master
(BTL certification coming soon)
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

