

OMNIA Control Module (CM)

SECURITY



The OMNIA Control Module is the fundamental building block for all OMNIA systems, as a system controller, it provides offline functionality with a full on-board copy of the OMNIA database, multiple modes simplify site specifications and installations. The CM can be configured via DIP Switch settings to operate as an OMNIA System Controller or as an intelligent door controller when coupled with other modules.

Features

- Some models have a built-in LCD touch screen and registration reader, excellent for a self-contained system for small installations
- The Controller PCB has 8 LED diagnostic indicators, four of which are visible with the plastic housing closed
- 3-Year Warranty on Hardware
- Cost effective solution that fits seamlessly into legacy Systems
- A Software utility to upgrade Firmware while installed on-site, without removal of the CM
- Up to 4 Expansion Modules may be accommodated with the CM, a further 8 Expansion Modules may be connected via S-Bus and mounted up to 150 m away from the CM
- S-Bus uses AES 128-bit Encryption through a Diffie Hellman key exchange to ensure secure communications
- A TCP/IP Bus which links the System Controller to the Host PC with a standard Ethernet Cable
- A Software utility to upgrade Firmware while installed on-site, without removal of the CM

Make the Intelligent Choice

For more information about PMTronics's OMNIA Access Control, to see demonstrations, or to discuss your company's needs contact us at 727-786-1900.

www.pmtronics.com



SPECIFICATIONS

ELECTRICAL

Input Voltage	12 V DC to 15 V DC	
Power Requirements (at 12V DC)	Current (mA)	Power (W)
Models with no touch screen	140	1.7
Models with touch screen	175	2.1
Power Input Protection	Reverse polarity and over-current protection are provided	

PERIPHERAL COMMUNICATIONS PORTS

Connection Set Feature (Baud Rate 115 200)	Up to 8 Expansion Modules may be plugged side-to-side and into the Control Module
S-Bus (Host) (Baud Rate 7 600)	This allows Expansion Modules (like the WM) and other S-Bus Devices to be installed up to 150m from the Control Module. A maximum of eight devices may be connected via S-Bus.
Host Computer	Standard Ethernet RJ45 connector. 10/100 Base T, half or full duplex, Proprietary Protocol
RS485 Door Controller Maximum 64 Addresses (In NEXUS220 mode only)	RS485, 38 400 Baud, 8 data bits, no parity, 1 stop bit, Secure Communications Protocol Provision is made for line termination

REAL TIME CLOCK BACKUP BATTERY (RTC)

Battery Type	1 x 3 V, CR2032, lithium cell battery
Battery Life	2 Years with power OFF 5 years with power ON 5 years storage with battery tab in place

PROCESSOR

Type	32-bit ARM Cortex M3 Operating at 180 MHz
Total RAM	200 K Byte
Flash	16 M Byte

USER INTERFACE - CONTROL MODULE TOUCH-SCREEN DISPLAY

Type	Backlit TFT color LCD
Size	71 mm (2.8")
Resolution	320 x 240
Touch Screen Technology	Resistive

DIAGNOSTIC INDICATOR LEDS

Status	Continuous Red, flashing during fault
Ethernet Link	Continuous Red (Visible through closed housing)
Ethernet Speed	Red LED on for 100 MHz, off for 10 MHz
Data	Flashes green During Communication
RS485 System Controller	TX: Red while transmitting data RX: Green while receiving data
RS485 Door Controller	TX: Red while transmitting data RX: Green while receiving data

ENVIRONMENTAL

Operating Temperature	-25°C to +60°C (-13°F to +140°F)
Storage Temperature	-40°C to +80°C (-40°F to +176°F)
Humidity Range	0 to 95% relative humidity at +40°C (+104°F) non-condensing
Dust & Splash Resistance	Designed to work in an indoor (dry) environment similar to IP20. The housing is not sealed against water ingress.
Drop Endurance	1 m (3.28 ft.) drop (in packaging)

APPROVALS

UL	ANSI/UL 294, Issued: 2013/05/10 Ed:6
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ORDERING INFORMATION

HCM941-0-0-AC	OMNIA Control Module in plastic housing - no LCD
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