ROCKWELL AUTOMATION
ENCOMPASS™
AMERICAS · EUROPEAN PARTNER

CM52 Remote I/O Module

Features

- Two Read/Write RFID Antenna Ports
- 25 MHz i386 Processor
- 512KB Flash Memory
- 512KB RAM
- DOS Compatible Operating System
- Two General Purpose Serial Ports for CM52
- Two Industrial-Level Inputs/Outputs
- LED Status Indicators
- NEMA 2 (IP31) Enclosure

Applications

- Material Handling
- Sortation Systems
- Work-in-Progress Monitoring
- Quality Control

Use With

- EMS Passive Read/Write
- EMS Passive Read Only
- EMS Active Read/Write
- RS232 and RS422 Serial Devices

EMS, a Datalogic Group Company, is the field-proven leader in the development and application of Radio Frequency Identification (RFID) Tags/Labels/PCBs, Antennas, Controllers and network interface modules for tough industrial environments. With over a dozen years of RFID successes in the automotive, electronics, material handling and food processing industries, EMS has built a global reputation in providing customers with complete supply chain solutions – from production to retail EMS has the complete solution!

Technical Description

The CM52 is a general purpose programmable interface between the Allen-Bradley Remote I/O network and up to two HS/HL500-Series Antennas, or as many as 32 HMS-Series Reader/Writers, RS-Series Readers, or bar code scanners (or a combination of both) on a Mux32 line. The CM52 can be used to give a Remote I/O presence to a wide range of existing equipment, such as bar code Readers, RFID Controllers, bar code verifiers, sensors and switches.

This programmable interface is provided with a standard program that allows Remote I/O commands to control the reading and writing of a block (or non-contiguous blocks) of data, Mux32 connection status, serial inputs/outputs, and Tag fill functions.

REMOTE I/O PRESENCE FOR AUTO ID PRODUCTS

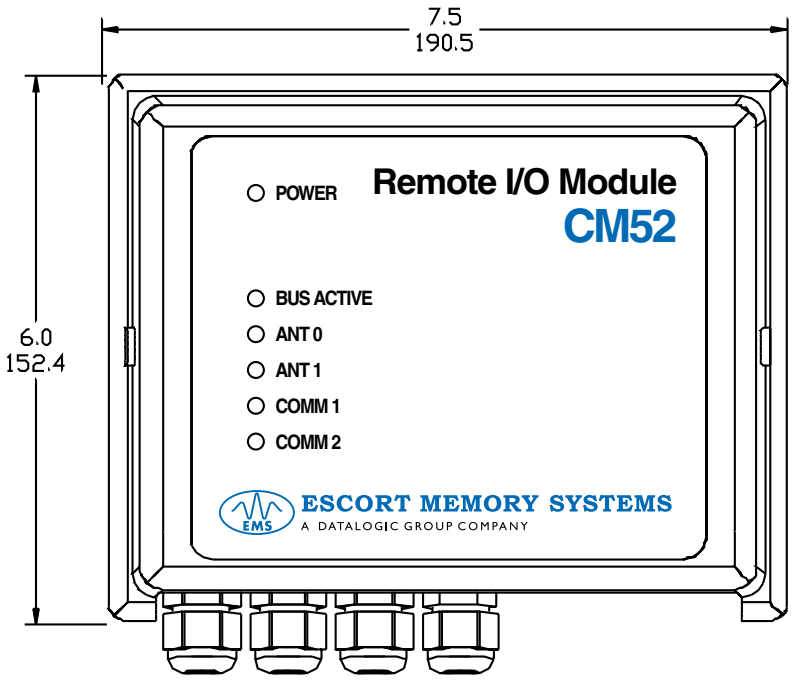
The standard program can readily be modified by EMS. For special applications; contact your EMS representative.

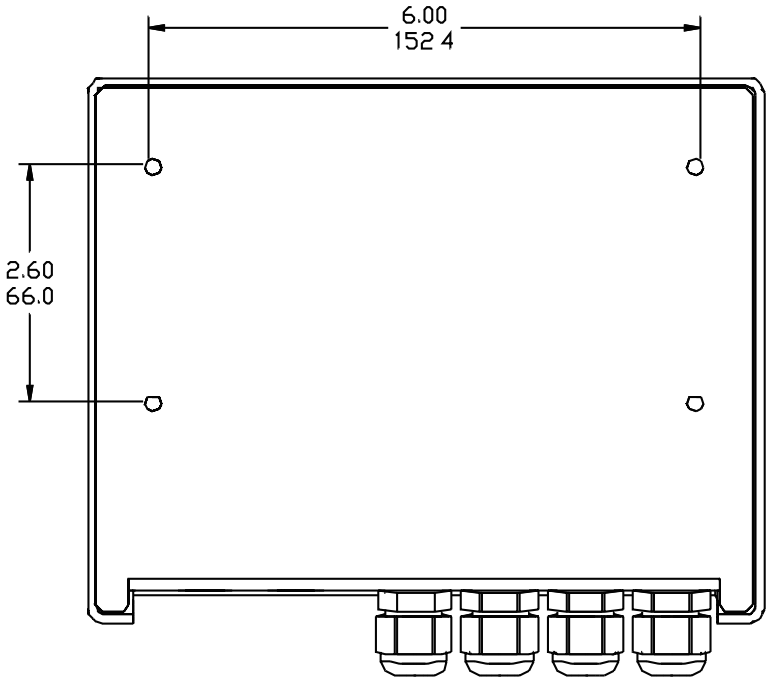
The module is based on a real-time, DOS compatible operating system providing great speed and flexibility. As many as four commands can be processed simultaneously. The CM52 is implemented as a two board set, interconnected by a stackable PC104 Connector.

CM52 Remote I/O Module

Electrical	Power Requirements From External Connector	24VDC ±15% 350mA (Module Only) 900mA (with Antennas)
Communication	Interface RFID	A-B Remote I/O Two EMS HS/HL-Series Antenna Ports, HMS-Series Readers through Serial Ports
Ports	COM1 COM2 Input Output	RS232 RS232/RS422/RS485(Mux32 Protocol) Two Industrial-Level Inputs, 10-30VDC Two Industrial-Level Outputs, 5-30VDC@400mA Either Sourcing or Sinking
Mechanical Specifications	Dimensions (W x H x D) Weight Enclosure	7.5 x 6.0 x 2.1in. (191 x 152 x 51mm) 2.0lbs. (0.9kg) ABS Shell
Environment	Operating Temperature Storage Temperature Humidity Shock Resistance Vibration Resistance Protection Class	32° to 120°F (0° to 49°C) -4° to 158°F (-20° to 70°C) 90% Non-Condensing IEC 68-2-27 Test EA 30g; 11ms; 3 Shocks Each Axis IEC 68-2-6 Test FC 1.5mm; 10-55Hz; 2 Hours Each Axis NEMA 2 (IP31)

Mechanical Dimensions





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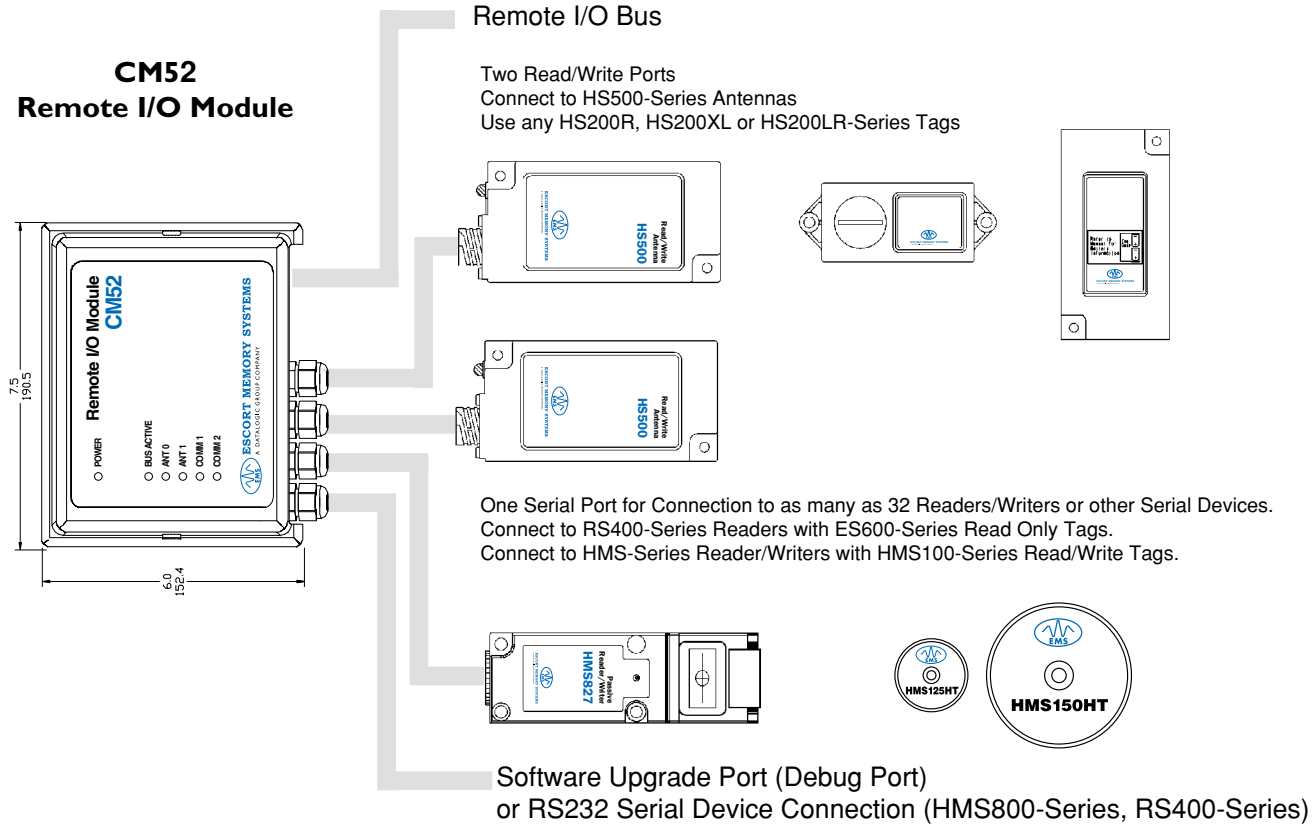
Connections



Available Models

Model	Description
CM52	Remote I/O Module, NEMA 2 (IP31)

Accessories

Model	Description
00-1096	DIN Rail Clips with Screws
30-1022	Mating Connector Remote I/O Bus