

# CM32 Profibus 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 CM32
- 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 RS485 Serial Devices
- HL-Series

**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 CM32 Profibus Module is a general purpose programmable interface between the Profibus 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 CM32 supports Profibus DP slave protocol with communications speeds up to 12M baud. The CM32 can be used to give a Profibus 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 Profibus 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.

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

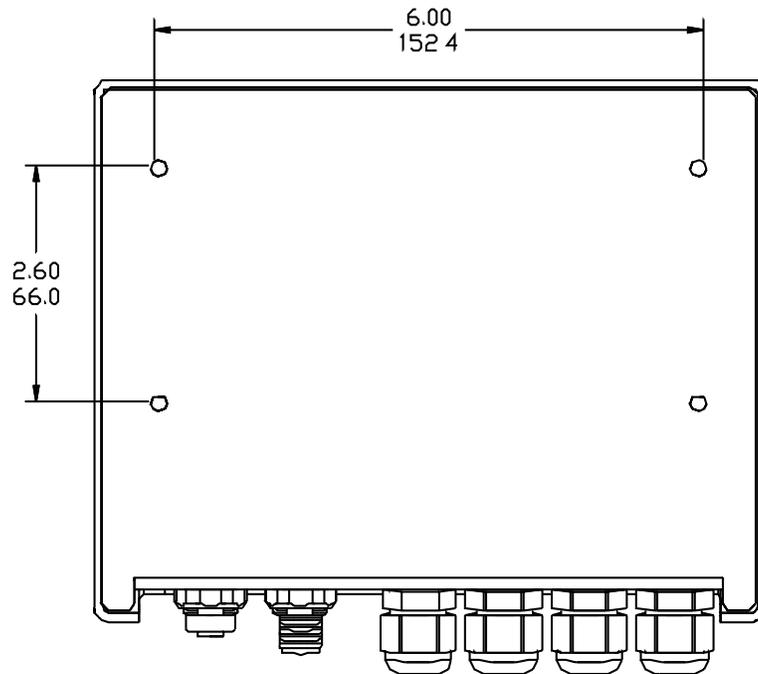
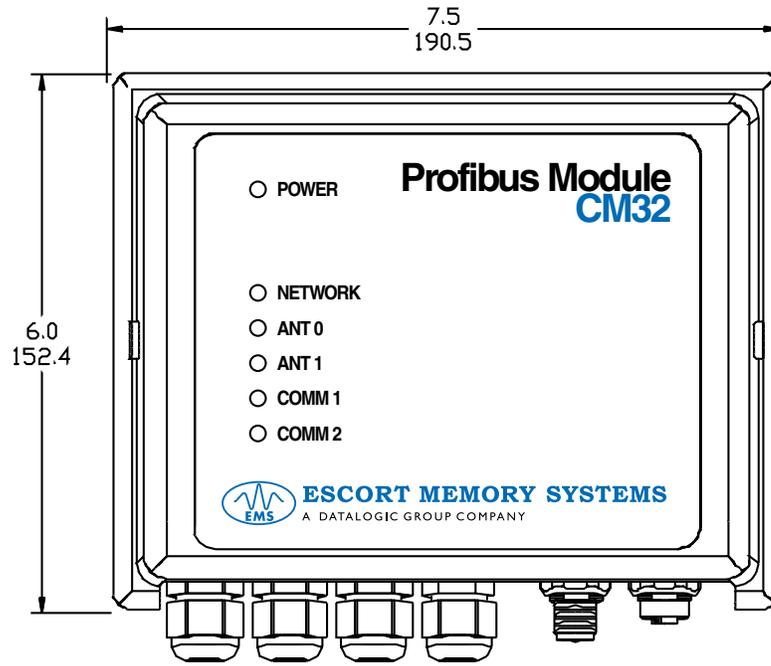
The module is based on a real-time, DOS compatible operating system providing great speed and flexibility. As many as four commands can be processed simultaneously. The CM32 is implemented as a two board set, interconnected by a stackable PC104 Connector.

**PROFIBUS  
PRESENCE  
FOR  
AUTO ID  
PRODUCTS**

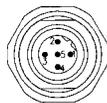
## CM32 Profibus Module

<b>Electrical</b>	Power Requirements From External Connector	24VDC $\pm$ 15% 350mA (Module Only) 900mA (with Antennas)
<b>Communication</b>	Profibus RFID	DP Slave Protocol up to 12M baud Two EMS HS/HL-Series Antenna Ports, HMS-Series Readers through Serial Ports
<b>Ports</b>	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
<b>Mechanical Specifications</b>	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
<b>Environment</b>	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)

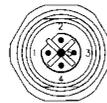
## Mechanical Dimensions



Profibus-In  
5P Conn

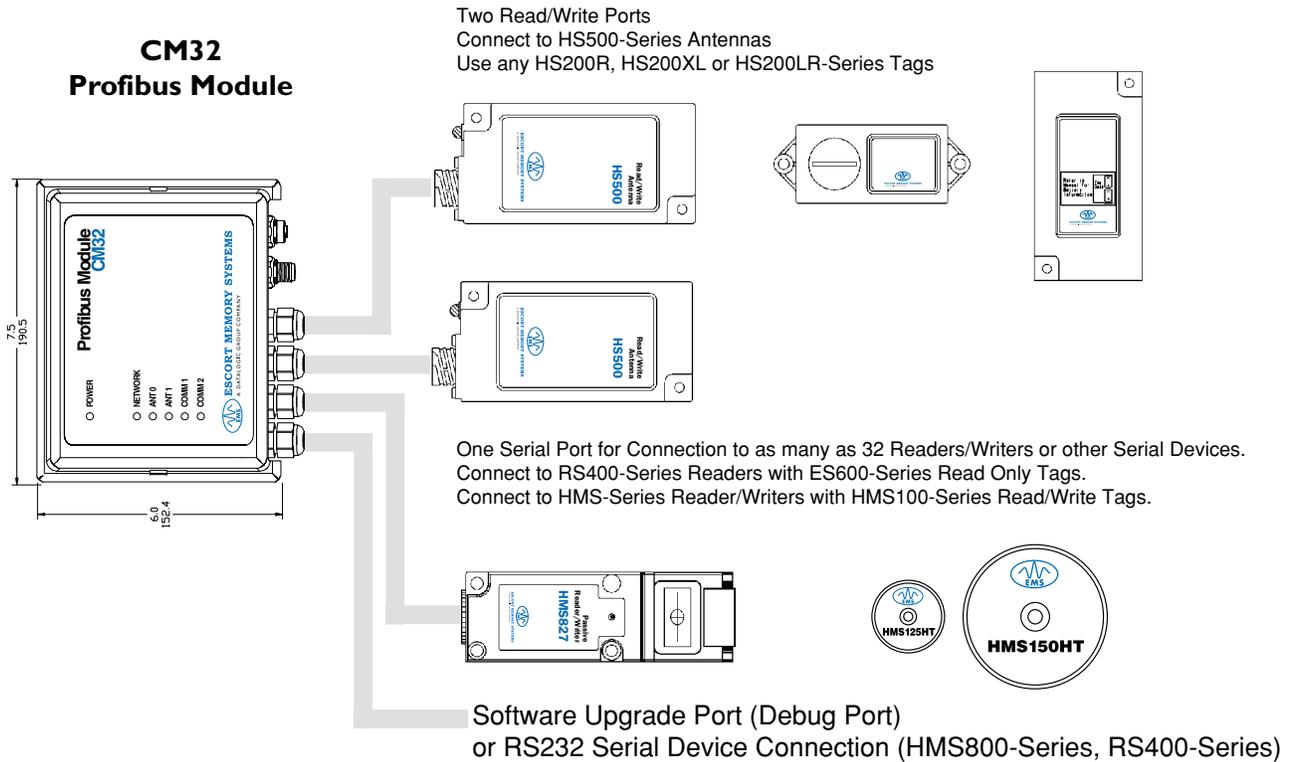


Profibus-Out  
5S Conn



# CM32 Profibus Module

## Connections



### Available Models

Model	Description
CM31	Profibus DP Communication Module, NEMA 4 (IP66)
CM32	Profibus DP Communication Module, NEMA 2 (IP31)

### Accessories

Model	Description
00-1096	DIN Rail Mounting Clips (2) with screws, for use with CM32
00-1098	Profibus 12Mbaud Termination Plug, 12mm male
CBL-1438-01	Profibus 12mm M/F Cable (1 meter length)
CBL-1438-03	Profibus 12mm M/F Cable (3 meter length)
CBL-1438-06	Profibus 12mm M/F Cable (6 meter length)
CBL-1438-30	Profibus 12mm M/F Cable (30 meter length)
CBL-1440-01	CMx2 to HS500 Cable (1 meter length)
CBL-1440-03	CMx2 to HS500 Cable (3 meter length)
CBL-1440-06	CMx2 to HS500 Cable (6 meter length)
CBL-1440-30	CMx2 to HS500 Cable (30 meter length)
46-1442	Profibus, 12mm female, Field Mountable Connector
46-1443	Profibus, 12mm male, Field Mountable Connector