INTERBUS

CM21
InterBus-S
Module

Features

- Two Read/Write RFID Antenna Ports
- 25 MHz i386 Processor
- 512KB Flash Memory
- 512KB RAM
- DOS Compatible Operating System
- High Speed PCP 2.0 Communications Protocol
- One Industrial-Level Input
- Two General Purpose Serial Ports
- LED Status Indicators
- NEMA 4 (IP65) 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 CM21 InterBus-S Module is a general purpose programmable interface between the InterBus-S network and up to two HS/HL500-Series Antennas, or as many as 32 HMS-Series Reader/Writers, RS-Series Readers or bar code readers/scanners (or a combination of both) on a Mux32 line. The CM21 supports InterBus-S Remote Bus with communications speeds up to 12M baud. The CM21 can be used to give a InterBus-S 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 InterBus-S 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 CM21 is implemented as a two board set, interconnected by a stackable PC104 connector.

**INTERBUS-S PRESENCE FOR AUTO ID PRODUCTS**

CM21 InterBus-S Module

Electrical	Power Requirements From External Connector	24VDC ±15% 200mA (Module Only) 700mA (with Antennas)
Communication	InterBus-S RFID	Remote Bus or Installation Remote Bus Two EMS HS/HL-Series Antenna Ports, HMS-Series through Serial Ports
Ports	COM1 COM2 Input	RS232 RS232/RS422/RS485(Mux32 Protocol) One Industrial-Level Input, 10-30VDC
Mechanical Specifications	Dimensions (W x H x D) Weight Enclosure	8.66 x 4.72 x 3.22in. (220 x 120 x 82mm) 4lbs. (1.8kg) Aluminum Alloy
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) 95% Non-Condensing IEC 68-2-27 Test EA 30g; 11ms; 3 Shocks Each Axis IEC 68-2-6 Test FC 1.5mm; 10 to 55Hz; 2 Hours Each Axis NEMA 4 (IP66)

Mechanical Dimensions

InterBus-S Module
CM21

ESCORT MEMORY SYSTEMS
A DATALOGIC GROUP COMPANY

3.22
81.90

4.72
119.86

3.23
82.04

8.03
203.96

0.25
6.35
4X

8.66
219.96
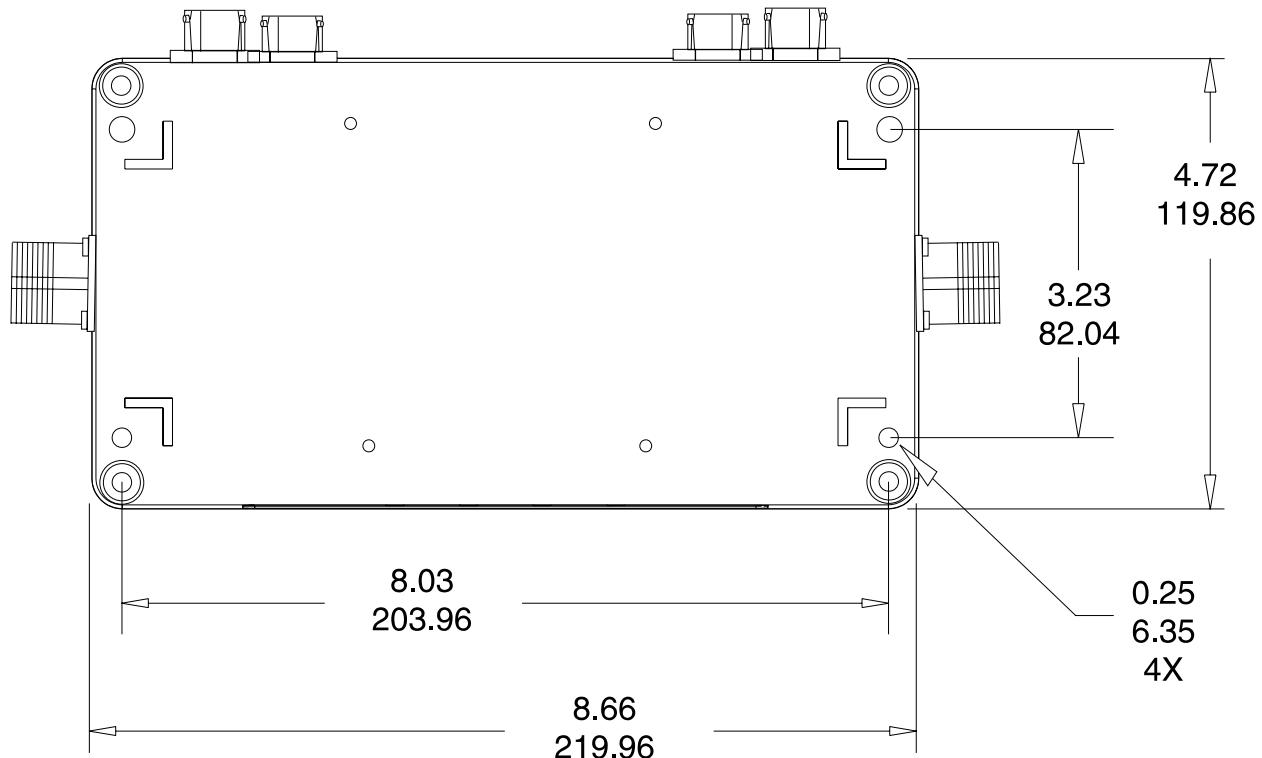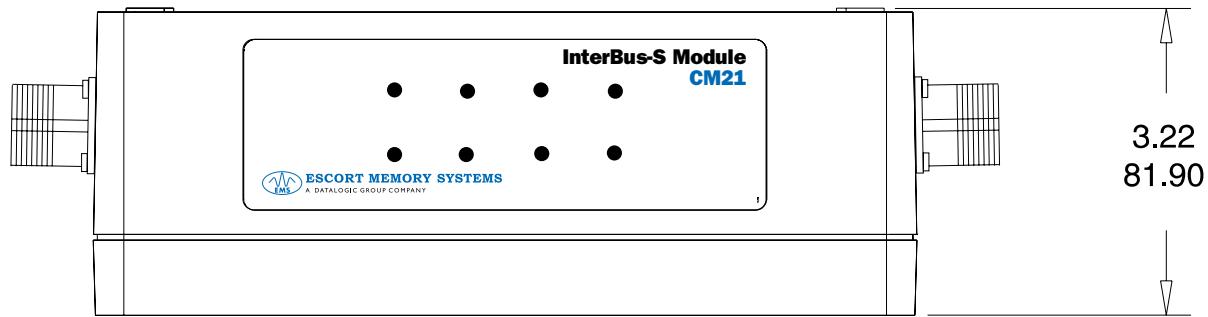
CM21 InterBus-S Module

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Two Read/Write Ports
Connect to HS500-Series Antennas
Use any HS200R, HS200XL or HS200LR-Series Tags
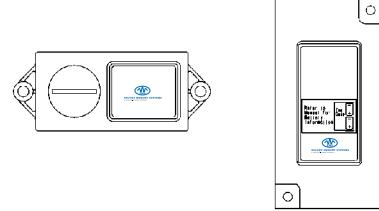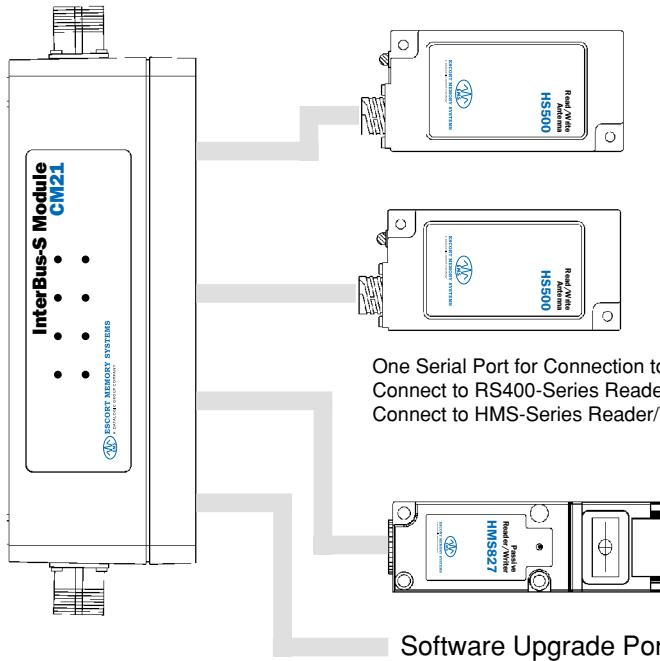
One Serial Port for Connection to as many as 32 Readers/Writers or other Serial Devices.
Connect to RS400-Series Readers with ES600-Series Read Only Tags.
Connect to HMS-Series Reader/Writers with HMS100-Series Read/Write Tags.
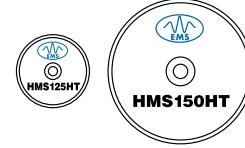
Software Upgrade Port (Debug Port)
or RS232 Serial Device Connection (HMS800-Series, RS400-Series)

Available Models

Model	Description
CM21	InterBus-S Module