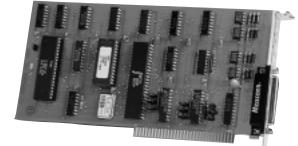
ESCORT MEMORY SYSTEMS A DATALOGIC GROUP COMPANY



HS900 PC-Bus **Read/Write** Controller

Features

- Simple Dual-Port Memory Interface to PC-Bus
- Controls up to Four HS-Series Antennas Simultaneously
- Antenna Cable Length up to 4000 Feet (1200 Meters)
- 3,000 Bytes/Second Data Transfer – Reading and Writing
- No Separate Power Supply Required
- PC-Compatible Demo Software Available

Applications

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

Use With

- HS200R-Series Tags
- HS200XL-Series Tags •
- HS200LR-Series Tags •
- HS500-Series Antennas

scort Memory Systems[®] (EMS) offers a complete family of field-proven Read/ Write Radio Frequency Identification (RFID) products and network interface modules. The system consists of Tags, Antennas and Controllers. Tags can be attached to a product or its carrier and act as an electronic identifier, job sheet, portable database or manifest. Tags are read and updated via an EMS Antenna through any non-conductive material while moving or stationary.

Technical Description

The HS900 PC-Bus Read/Write Controller is an XT-type PC expansion board which serves as the interface between a PC, XT, AT or PCcompatible personal computer and up to four HS-Series Antennas. The Antennas can be used to both read and write data from the HS-Series Read/Write Tags. The connection between the PC-Bus Controller and each Antenna is via two twisted pairs (four wires), with a maximum cable length of 4,000 feet (1200 meters). This is advantageous because the Controller portion of the RFID system is then afforded extra protection from noise that could be generated by electrical equipment positioned near the Read/Write station.

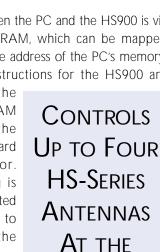
Interface between the PC and the HS900 is via 2KB dual-port RAM, which can be mapped into any available address of the PC's memory. Read/Write instructions for the HS900 are

written into the dual-port RAM and read by the HS900's on-board microprocessor. Once the Tag is read, the collected data is returned to the PC via the same dual-port.

memory-This mapped nature of

the HS900 makes interfacing fast and easy. Sample interface routines are available in the popular C programming language.

The HS900 is manufactured under the quality standards which have made EMS the industry leader in network interface modules.

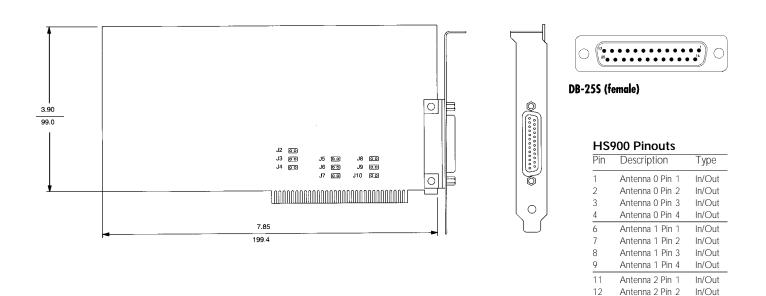


SAME TIME

HS900 PC-Bus Read/Write Controller

Electrical	Supply Voltage Maximum Current	±5VDC (Obtain directly from PC-Bus) 500mA
Interface With Antenna	Maximum Cable Length	4000ft. (1200m)
Communications With Host	Compatibility Interface	PC, XT, AT and 100% PC-Compatible Dual Port RAM, Selectively-Addressable within PC Address Space
Mechanical Specifications	Dimensions (W x H) Connector	3.90 x 7.85in. (100 x 199mm) DB-25S for All External Connections
Environment	Operating Temperatures Storage Temperature Humidity Protection Class	32° to 120°F (0° to 49°C) -40° to 185°F (-40° to 85°C) 95% Non-Condensing NEMA 1 (IP30)

Mechanical Dimensions



13

14

16

17

18

19

Antenna 2 Pin 3

Antenna 2 Pin 4

Antenna 3 Pin 1

Antenna 3 Pin 2

Antenna 3 Pin 3

Antenna 3 Pin 4

In/Out

In/Out

In/Out

In/Out

In/Out

In/Out

Available Models Model

Description

HS900-4

PC-Bus Controller for Four Antennas

RFID Solutions for Your Application – Call: 831/438-7000 Fax: 831/438-5768 Web: www.ems-rfid.com 3 Victor Square, Scotts Valley, California 95066 USA E-mail: info@ems-rfid.com