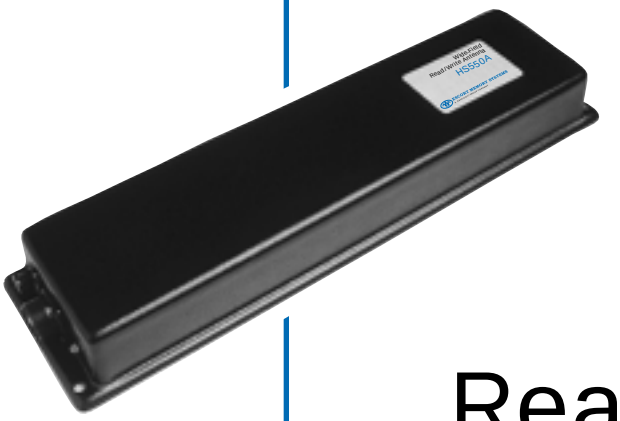
ESCORT MEMORY SYSTEMS
A DATALOGIC GROUP COMPANY



HS550A Wide-Field Read/Write Antenna

Features

- Up to 16 Inch Wide Read Field
- 3000 Bytes/Second Data Transfer Speed – Reading and Writing
- Epoxy Encapsulated
- Unaffected by Paint, Dust, Dirt and Solvents
- High Immunity to Metal

Applications

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

Use With

- HS200R-Series Tags
- HS200XL-Series Tags
- HS200LR-Series Tags
- HS850B Serial Eurocard Controller
- HS880B-Series Read/Write Controllers
- HS900 PC-Bus Read/Write Controller
- CM12 DeviceNet Module
- CM21 InterBus-S Module
- CM30-Series Profibus Modules
- CM40-Series Modbus Plus Modules
- CM52 Remote I/O Module
- CM900 / CM1000
- CM1746 RFID Module

Escort 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 HS550A Wide-Field Antenna connected to an Escort Memory Systems Controller provides a very convenient interface between a host computer or programmable Controller and the data in EMS Tags.

The HS550A Antenna contains all the circuitry necessary to convert the digital signals received from the Controller to high speed RF signals for the Tags, and subsequently, convert the RF signals from the Tags back into digital signals for the Controller.

The wide RF field of the HS550A makes it ideal for use in factory automation environments where Tags will be moving at greater speeds as they pass the Antennas. To further ease installation, the distance from the Controller card to the Antenna can be up to 4,000 feet. 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. Connection to the Controller is via a 6-pin circular Connector. Antennas can be replaced on the line without changing any wiring.

WIDE READ/WRITE FIELD MAKES TRACKING FAST MOVING PRODUCTS EASY

The Antenna is equipped with a two-color status LED, indicating when power is present and the Antenna is or is not transmitting.

The Antenna is a solid state device, without moving parts or mechanical switches, and configuration is not required prior to installation. It has a metal backplate which helps to distribute stress from the mounting bolts and greatly increases immunity to additional metal in the Read/Write field.

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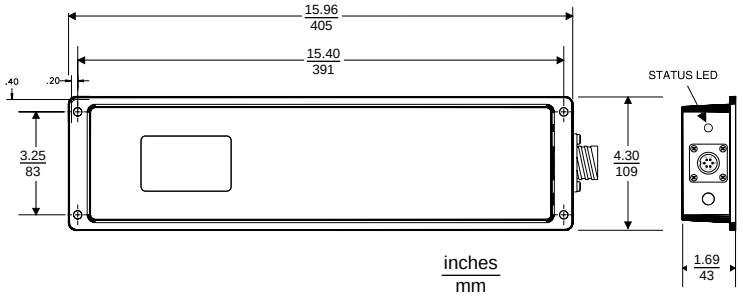
HS550A Wide-Field Read/Write Antenna

Electrical	Supply Voltage	20-26VDC
	Maximum Current	500mA
	Maximum Ripple	2% of DC Voltage
RF Interface	Data Transfer Rate	3000 Bytes/Second
Interface with Controller	Maximum Cable Length	4000ft. (1200m)
Mechanical Specifications	Dimension (W x H x D)	15.96 x 4.30 x 1.69in. (405 x 109 x 43mm)
	Weight	5lbs. (2.3kg)
	Enclosure	ABS Shell, Epoxy Encapsulated
	Cable	User Supplied
	Connector	6-Pin Metal, Circular (Mating End Purchased Separately)
	Indicators	Power/Transmit LED
Environment	Operating Temperature	14° to 120°F (-10° to 49°C)
	Storage Temperature	-40° to 185°F (-40° to 85°C)
	Humidity	Water-Resistant
	Protection Class	NEMA 4X (IP66)

Mechanical Dimensions



Read/Write Ranges

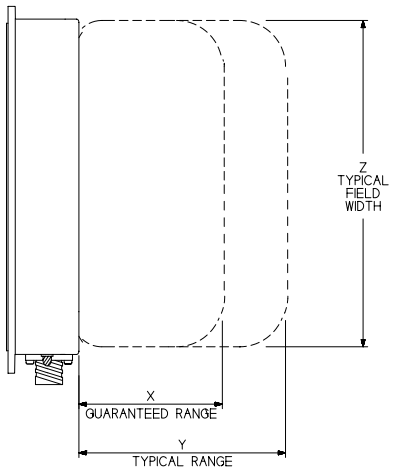
HS550A Wide-Field Read/Write Antenna

Reading & Writing Ranges to HS200-Series Read/Write Tags

	HS200R	HS200XL	HS200LR
Typical Range (Y) (inches/mm)*	4.49/114	5.90/150	16.50/420
Guaranteed Operating Range (X)	3.58/91	4.72/120	13.20/335
Reading Field (Z)	13.00/330	13.00/330	13.00/330

* Proximity to metal, CRT devices and other sources of electromagnetic radiation may affect the range of the Antenna.

** Not recommended.



Available Models

Model	Description
HS550A	Wide-Field Read/Write Antenna (Mating Connector Not Included)

Accessories

Model	Description
68-5001	Crimping Tool for Circular Connector, (AMP 169341-1)

RFID Solutions for Your Application – Call: 831/438-7000 Fax: 831/438-5768 Web: www.ems-rfid.com
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