HF Antennas

HF Antennas for Textile Services Applications

HID Textile Services provides a variety of HF antennas that come in different shapes, sizes and formats, depending on the use case. Combined with HID Textile Services' HF Medio readers and tag portfolio, they provide a robust HF RFID infrastructure solution for a variety of applications.

TR-SA STACK ANTENNA

A robust HF RFID antenna designed specifically to identify and track stacked RFID-tagged textile items. Its precise multi-read capabilities and rugged package make it ideal for industrial environments where accuracy, efficiency and durability are required.

TR-SA Stack Antenna is easily mounted on laundry worktables. It offers a large detection area for all types of stacked RFID-enabled textile products such as garments, linen and mops.

TR-S Stack Antenna features removable ergonomic guides to easily handle stacked items. Typically used with HID Textile Services' Medio L40 reader, it accurately reads up to 20 folded items, the equivalent of a 20cm high stack (12 in).

LSA4-SHD ANTENNA

A robust, high frequency HF RFID antenna specifically designed to identify multiple items equipped with small RFID tags. Its precise multi-read capabilities and rugged package make it ideal for industrial environments where accuracy, efficiency and durability are required.

LSA4-SHD Antenna has been designed to quickly and efficiently read multiple items at once. Its advanced antenna technology is specifically tuned to perform optimally in environments where small RFID tags are affixed to products, making it the perfect antenna for industrial type applications.

AERO LB

A packaged HF RFID antenna, mid-size and robust, perfectly suited for mid and long-range applications in rough industrial environments. AERO LB antenna has been optimized to operate with HID Textile Services' mid to long range Medio readers.

TR-HA1

A high-frequency RFID antenna manufactured as a convenient handheld wand. It quickly and accurately identifies information from RFID-tagged items to facilitate item check-in/check-out and for inventory tracking. The precise reading capabilities, compact size, and rugged casing make it an ideal RFID antenna for industrial laundries where accuracy, efficiency and durability are required. It is light and portable, making it easy to identify RFID-tagged items in stacks, piles, or hangers. A convenient on/off push button activates the RFID reading process.

TUNNEL HF ANTENNA

Incorporates a state-of-the-art patented 3D antenna configuration to provide the best multi-read performance on the market. With a guaranteed 99.95% product read rate, a universal requirement in manufacturing plants and warehouses, the Tunnel HF Antenna improves efficiencies in shipping, receiving and sorting by automating the inventory verification process.

The Tunnel HF Antenna is robust yet compact. In a few seconds only, a large number of RFID-enabled items, whether stacked, in bulk or in bags or boxes, can be reliably identified. The Tunnel HF Antenna can be mounted on a conveyor (contact us for details).

KEY BENEFITS:

- Different formats: table-top, wall-mounted, handheld and conveyor-belt
- Robust designs for industrial environments
- Delivered with cables and connector

HID

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KEY TECHNOLOGY HIGHLIGHTS:

- 13.56 MHz
- Shielded casing

TYPICAL APPLICATION AREAS:

- Industrial laundry
  - Conveyor stations for bulk and on-the-fly identification of RFID-enabled items
  - Handheld devices to inventory RFID-enabled items.

For more information, contact:
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	LSA4-SHD	TR-SA	Aero LB	TR-HA1	Tunnel Antenna
Base Model Number	DDP13762	DDP11102	HWP101863	DDP11898	DDP12850
ELECTRONIC					
Operating Frequency	13.56 MHz				
Chip Compatibility	ISO 15693, ISO 18000-3 Mode 1				
RF Input Power	2W		4W	1W	5W Max
Cable	9.8 ft (3 m) built-in coaxial cable	11.5 ft (3.50 m) built-in coaxial cable, cable extension possible	118 in (3 m) coaxial cable, cable extension possible	6.5 ft (2 m) built-in cable	4 x 1m coaxial cables
Connector Type	SMA	BNC	SMA/BNC plug male	BNC plug	SMA
Compatible Host Devices	Medio L40, Medio P200u, Medio P232-P233				Medio L40
PHYSICAL					
Dimensions	11.3 x 10.3 x 0.6 in (25.4 x 263 x 17 mm)	25.6 x 17.3 x 0.7 in (650 x 440 x 18 mm)	12.5 x 10.8 in (317 x 275 mm)	16.9 x 4.7 x 1.6 in (430 x 120 40 mm)	**External:** 35.5 x 35.5 x 47.2 in (90 x 90 x 120 cm) **Internal:** 19.7 x 19.7 x 47.2 in (50 x 50 x 120 cm)
Weight	2.2 lbs (1 kg)	3.3 lbs (1.5 kg)	15 oz (430 g)	15.8 oz (450 g)	88.2 lbs (80 kg)
Material	ABS casing, includes metallic shielding	Black polystyrene ABS	Light blue plastic BS	ABS and aluminum	Stainless steel and ABS
THERMAL (AIR)					
Operating	32°F to 104°F (0°C to 40°C)			32°F to 122°F (0°C to 50°C)	
OTHER					
Additional Features		Includes a mounting kit with guides to position linen stacks		On/Off push button for on-demand read mode	
Warranty	1 year				

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