

Product profile



Antenna Cell

- Specifically developed for forklift installations
- Enables fast and inexpensive installations
- Flexible and configurable to support changing application needs
- Available in both FCC and ETSI frequencies

With its unique, mostly metal design, the Intermec Antenna Cell is an RFID antenna specifically developed for forklift installations where shock and vibration can far exceed the specifications of antennas designed for fixed RFID reader applications. Complete with mounting hardware, Antenna Cells can be mounted with no drilling, cutting or welding which enables fast and inexpensive installations for a single forklift or fleet deployments. Antenna Cells are available in both FCC and ETSI frequencies.

Antenna Cells leverage another new product, the Adaptable Load Backrest (ALBR), developed in partnership with Cascade Corporation, the world's leader in the design and manufacture of lift truck attachments. The Antenna Cells can be mounted into an ALBR in about a half hour, as opposed to spending a day of field engineering time, and approximately \$2500 in expense, to install RFID equipment onto a forklift the "old fashioned" way.

The ALBR neatly and precisely compartmentalizes the Antenna Cells and RFID reader into areas of the load backrest that don't obstruct the operator's vision and are protected from damage. In addition, the ALBR provides

built-in Antenna Cell cable routing for protection for vulnerable cables and a professional looking installation.

Antenna Cells mounted into ALBRs are flexible and configurable for quick and inexpensive reconfigurations to support changing application needs such as converting from pallet tag reading to case level reading. This modular approach enables Antenna Cells to be interchangeable for quick replacement of damaged parts lessening slow downs in a busy operation.

The ALBR and Antenna Cells not only improve operator performance and safety, they also significantly reduce the time and cost of RFID forklift deployments. With the ALBR and Antenna Cells, the installation of an RFID reader and antennas no longer needs to involve labor-intensive customization of the load backrest or fork truck. Durable, reliable installations of these products should last the life of a typical forklift lease.

Antenna Cells are sold by Intermec Technologies and its distributors and partners. ALBRs are manufactured and sold by Cascade Corporation. They are built to order for specific forklift models.

Intermec Model Number	IA33D	IA33E
Intermec Part Number	805-816-001	805-816-002
RFID Frequency Ranges	865 – 870 MHz	902 – 928 MHz
Physical Characteristics	Length: 19.6 cm (7.7 in) Width: 19.6 cm (7.7 in) Height: 2.5 cm (1 in) Weight: 1.4 kg (3 lb)	Length: 19.6 cm (7.7 in) Width: 19.6 cm (7.7 in) Height: 2.5 cm (1 in) Weight: 1.4 kg (3 lb)
Environment	Operating Temperature: -25°C to 55°C (-13°F to 131°F) Storage Temperature: -30°C to 75°C (-22°F to 167°F) Humidity (non-condensing): 10% to 90%	Operating Temperature: -25°C to 55°C (-13°F to 131°F) Storage Temperature: -30°C to 75°C (-22°F to 167°F) Humidity (non-condensing): 10% to 90%
Environmental Rating	IP66	IP66
Shock	50 g, 8ms ½ sine, 5000 impulses each direction, each axis	50 g, 8ms ½ sine, 5000 impulses each direction, each axis
Gain	6.0 dBi	6.0 dBi
Impedance	50 Ohms	50 Ohms
VSWR	<1.5:1	<1.5:1
Axial Ratio	N/A	N/A
Polarization	Right Hand Circular	Right Hand Circular
Front-to-Back Ratio	10 dB	10 dB
Maximum Input Power	10 Watts	10 Watts
H-Plane Beamwidth	66 degrees (half power)**	82 degrees (half power)
E-Plane Beamwidth	82 degrees (half power)	82 degrees (half power)
Connector	N	N Reverse Polarity
RoHS, WEEE Compliance	Complies	Complies
Mounting Hardware	Adaptable Load Backrest Mounting Included	Adaptable Load Backrest Mounting Included

** Beam width when mounted in the adjustable load back rest.

Restrictions On Use

Some approvals and features may vary by country and may change without notice. Please check with your local Intermec sales office for further information.

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