



RFID *Antennas*

Tech Logic's RFID antenna transmits power and data to and from the RFID tag. The antenna connects to a reader (included) that communicates with the Tech Logic CircIT software to read and write information from and to the RFID tag.

Tags

Tech Logic's antennas are compatible with most ISO compliant tags. Tech Logic uses 13.56 MHz ISO standard tags and writes the library's standard barcode number on the tag's chip. Libraries may purchase tags from Tech Logic.

Antenna Features

The RFID antenna is available with a ferrite base. The ferrite material blocks radio waves to read only items that are on top of the antenna area in a read range of up to 8 inches. The focused read area eliminates the reading of items that could be under the desk or alongside the antenna and allows the antenna to read near tags and metal.



Reading Conditions

To ensure proper reading of RFID tags, metal objects are kept a minimum of 8" from the plastic base antenna and RFID tags are stored a minimum of 18" from the antenna.

Antenna Options

- **Single**—Single antennas have an 11 in. × 14 in. reading area which allows for up to 8 items to be checked out simultaneously. Single antennas take up less counter space and are less expensive than dual antennas.
- **ABS Plastic**—Covers made from ABS are lightweight, strong, and scratch-resistant. They only are available in black and are less expensive than composite covers.
- **Composite**—Covers made from Hanex composite are available in a variety of colors and finishes that mimic the appearance of stone or wood. They are very durable and can be repaired and refurbished to look like new after years of wear and tear.
- **Undermount**—Undermounted antennas incorporate a single antenna directly beneath a non-metallic countertop. A sticker is used to indicate to the patron where the correct area is to place items during check-out. These antennas keep the countertop clear of wires and are a clean and effective way to incorporate an RFID antenna into existing furniture.

Reader Connection

The reader connects to the PC using a USB interface. The configuration that is available: (1) reader with power supply and USB cable for a single antenna configuration.

www.tech-logic.com

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RFID Antennas

Ferrite Base Antennas

- Single Antenna with Reader, Black ABS Cover
- Single Antenna with Reader, Hanex Cover
- Single Antenna with Reader, Undermount

Other configurations may be available.

Power Requirements

- 0.5 Amps
- 110 V Power Supply (Included)

Network Connection

USB 2.0 Cable (Included)

Supported Transponders

ISO15693, ISO18000-Mode 1

Operating Frequency

13.56 MHz

Transmitting Power

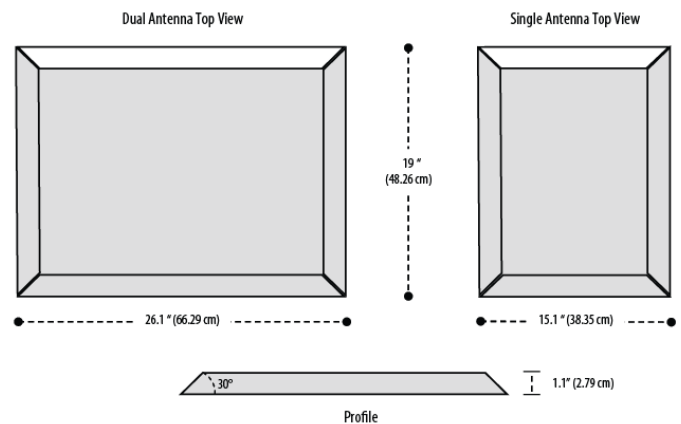
1 W \pm 2 dB

Operating Temperature

-13°F to 140°F (-25°C to 60°C)

Impedance

50 \pm 15 Ω



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