



IDentity FleX Antenna

Ultra High Frequency 916.25 MHz
Remote Antenna for Automatic Vehicle Identification

FEATURES

- Multiple antennas
Up to four antennas per reader for cost effective configuration
- Dual aperture antennas
Both send and receive elements are in one enclosure facilitating ease of installation
- Integrated indicator light
Built in LED permits quick lane configuration, read range verification and testing

Overview

The IDentity FleX remote antenna is an all-weather dual aperture (transmit & receive) antenna. Connected to the IDentity FleX reader, the antenna can be located up to 200 feet from the reader location with the appropriate coaxial cable. Equipped with a red light emitting diode (LED), the antenna is easy to install and configure. The LED provides an indicator and test tool for the installer and facility staff. As the Sirit transponder enters the read zone, the LED will illuminate indicating the transponder's presence.

The IDentity FleX antenna measures 30 x 12 x 2 inches and comes with a universal mounting bracket for easy installation. Mounting options include pole/wall and overhead ceiling mounting brackets for design flexibility. Performance characteristics with this antenna include read ranges up to 25 feet at speeds of 45 mph.

Multiplexing

The IDentity FleX reader has an antenna multiplexing feature built in, which allows up to four antennas (read points) to be controlled by a single reader, significantly lowering the cost per lane.




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Performance Characteristics	
Frequency:	UHF band, 916.25 MHz
Gain:	6 dB
Impedance:	50 ohms
Working Range:	Set by reader, up to 7.7 m (25 ft.)
Physical Characteristics	
Dimensions (LxWxD):	76.2 x 30.5 x 5.1 cm (30.00 x 12.00 x 2.00 in.)
Case Material:	Anodized aluminum, welded with PVC face (radome) Antenna can be painted with non-metallic paints
Weight:	3.5 kg (7.80 lb.)
Connectors:	2 x chassis mount N-type female
Recommended Installation:	Antenna to be mounted vertically 3.6 to 4.5 m (12 to 15 ft.) above ground level
Cable Requirements:	Distance from reader 0-18.3 m (0-50 ft.): Belden 8240 RG58/U or Times Microwave LMR195 (DB if buried) Distance from reader 18.3-60.9 m (0-200 ft.): Belden 9913 or Times Microwave LMR400 (DB if buried)
Environment	
Operating Temperature:	-25°C to +85°C (-13°F to 185°F)
Storage Temperature:	-40°C to +114°C (-40°F to 237°F)
Relative Humidity:	85% non-condensing @ 85°C
Power:	Supplied by IDentity FleX Reader; separate power source not required
Ordering Information	
Part Number:	Description:
IDFLEX-ANT-01	IDentity FleX Antenna (with integrated LED indicator and universal mounting bracket)
IDFLEX-ANT-CMB	Ceiling Mount Bracket
IDFLEX-ANT-WMB	Pole/Wall Mount Bracket
IDFLEX-ANT-UMB	Universal Mounting Bracket
IDFLEX-CABLE-RG58/U-60K	Cable (2 each - 50 ft. RG58/U cable, N connector attached, mini UHF connector assembly included)
IDFLEX-CONN-RG58/U	RG58/U Connector Kit
IDFLEX-CONN-9913	9913 Connector Kit
IDFLEX-CABLECON	9913/LMR400 Cable Adapter Kit
IDFLEX-CRIMP-RG58/U	RG58/U Cable Crimp Tool
IDFLEX-CRIMP-9913	9913/LMR400 Cable Crimp Tool
IDFLEX-WKIT	Weather Proofing Kit (for 1-3 antennas)



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About Sirit Inc.

Sirit Inc. (TSX: SI) is a leading provider of Radio Frequency Identification (RFID) reader technology to OEMs and solution providers worldwide. Harnessing the power of Sirit's enabling-RFID technology, customers are able to more rapidly bring high quality RFID solutions to the market with reduced initial engineering costs. Sirit's products are built on more than 13 years of RF domain expertise addressing multiple frequencies (LF/HF/UHF), multiple protocols and are compliant with global standards. Sirit's broad portfolio of products and capabilities are easily customized to address new and traditional RFID market applications including Supply Chain & Logistics, Cashless Payment, Access Control, Automatic Vehicle Identification, Inventory Control & Management, Asset Tracking and Product Authentication. For more information, visit www.sirit.com.



The "RFID by Sirit" symbol signifies that Sirit Inc.'s high quality RFID reader technology resides within this product.

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