



71 mm L x 56 mm W x 31.75 mm H

Features & Benefits:

- RS-232 and USB Interface Availability
- Supports Near Field Communication (NFC) Standards
- Compatible with Variety of Tags

HF RFID Fixed Mount and Barcode Module

JADAK's FM-214R is a fixed mount High Frequency (HF) RFID and barcode module designed for Original Equipment Manufacturers (OEM) who need to easily install RFID, barcode and image capture capabilities into their devices. Its small form fits scanning into applications with tight spaces.

Available with both an RS-232 and USB interface, the FM-214R is available with both standard and custom cables.

The FM-214R's on-board host processing reduces integration time by incorporating functionality and common features into an easy-to-use protocol. It operates with most RFID tags.

Applications:

- OEM medical equipment
- Flexible manufacturing lines
- Kiosk and Payment Terminals



FM-214R

Tag Compatibility			
Tag-It™ HF-1	2k	Texas Instruments	ISO15693
Icode™ SLI-L	1k	NXP	ISO15693
My-d™	5k	Infineon	ISO1443-A
SRIx4k	4k	ST Microelectronics	ISO1443-A
Icode™ 1	1k	NXP	Proprietary
Ario 370-S	1k	Tagsys	ISO15693
Mifare™	ID Only	NXP	ISO1443-A
FerVID FRAM	9k	Fujitsu	ISO15693
RFID Antenna Interface			
Frequency	13.56MHZ		
Data Rate	26kbps ISO15693, 106K to 848k bps ISO1443		
RF Power	120mW nominal		
Antenna	Internal and 50 ohm external antenna port		
Read Range	7 cm internal antenna, 15 cm external antenna		
Near Field Communications (NFC) Compatibility			
Standards	NFCIP-1: ISO/IEC18092 NFCIP-2: ISO/IEC21481		
Electrical			
Communications	RS-232 up to 115.2K baud, USB Model Flash memory for firmware updates in the field		
Power Supply	5V +/-10% VDC input		
Supply Current	310mA @ 5V (barcode) and 120mA (RFID) 60µA sleep		
Physical			
Dimensions	71 mm L x 56 mm W x 31.75 mm H		
Environment			
Operating Temp.	0° C to 50° C		
Humidity	95%, Relative Humidity, non-condensing, at 50° C		
Regulatory			
Certifications	FCC and CE Compliant		
Other	RoHS and WEEE Compliant		

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

ThingMagic is the JADAK line of RFID products.

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