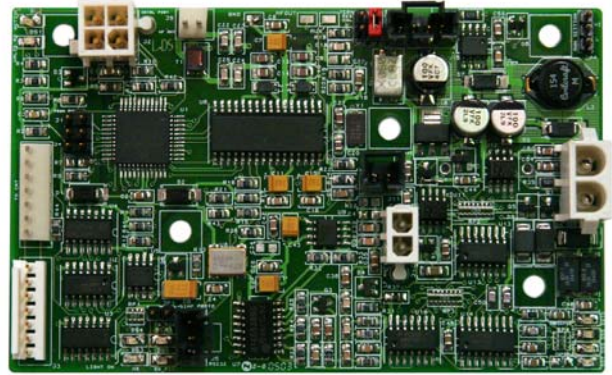


LADS

Latest Advanced Digital Solutions, Inc.

**RADIO
FREQUENCY
IDENTIFICATION
DEVICES**

LADS IDM-SS

Data Sheet

Description

The IDM-SS RFID reader is a multi-frequency reader capable of reading 134Khz and 13.56Mhz cards and tags. This reader can read standard TI type 134Khz Read only, Read/Write, and Digital Signature Transponders (DST.) It can also read 13.56Mhz ISO 14443A, 14443B (PayPass/ExpressPay) and 15693 Cards (labels) and Tags. This board is LADS offering to the OEM market for integration into their equipment, allowing a very quick and easy path to adding the new technology reader to their equipment. The IDM RFID reader is designed to work with remote antennas so that the antenna can be located in the most effective location for the application. LADS also offers a line of compatible antennas for use in equipment or counter use.

Specifications:

	LADS IDM
Operating Temperature	-20 to +70 ⁰ C
Storage Temperature	-40 to +85 ⁰ C
Relative Humidity	500 hours at 80% humidity, non-condensing at 70 C
LF Transmit Frequency	134 KHZ
HF Transmit Frequency	13.56 MHZ
Power Supply	22 – 38 VDC
Typical Current Consumption	Average quiescent current 6 ma @ 22V Maximum current during read 20ma @ 22V
Communications Interface	Serial Communications Interface (SCI), RS232 or 485
Communications Protocol	LADS Simple Protocol or Customer specific
Application firmware	Standard Multi-protocol w/Simple protocol – firmware downloadable via bios
System Architecture	Point-to-point or RS 485 multi-drop
Communications Parameters	9600 baud, 8 data bits, no parity, 1 start bit, 1 stop bit
Audible Feedback	Optional on-board enunciator
Antenna Impedance (hi freq)	50 ohm +/- 5
LF Antenna	47 uh, antenna easily implemented via inexpensive PCBs
HF Antenna	0.5 uh to 2 uh, easily implemented via inexpensive PCBs
Transponder Types	134KHz (Speedpass/TIRIS), 13.56 MHZ, ISO 14443 A & B and 15693
Package	Mountable PCB via #6 (M3) PCB holes
Dimensions	2.6" x 4.25" (66mm x 108mm)
General Purpose I/O	General purpose TTL output that can be controlled automatically after a valid read or via serial command from host
Status LEDs	Heart Beat Active Valid Read Comm. Tx and Rx
LF antenna connector	Two pin Mini-Mate –N –Lok Tyco connector P/N 770166-2
HF antenna connector	Header on board 2 pin – JST P/N B2P-SHF-1AA

For more information, contact the sales office at (512) 415-8624. This contact information and product information can be found on our web site at: <http://www.ladsinc.com>

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