



Latest Advanced Digital Solutions, Inc.

**RADIO
FREQUENCY
IDENTIFICATION
DEVICES**



LADS IDM

Data Sheet

Description

The IDM 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, digital signature transponders (DST.). It can 13.56Mhz ISO 14443A, 14443B (PayPass/ExpressPay) and 15693 capable. 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. LADS also offers a line of compatible antennas for use in equipment or counter use.

Specifications:

| | <i>LADS IDM</i> |
|-----------------------------|--|
| Operating Temperature | -20 to +70°C |
| Storage Temperature | -40 to +85°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 | 5 Vdc, regulated +/- 5% |
| Typical Current Consumption | Average quiescent current 90ma Maximum current during read 250ma |
| Communications Interface | Serial Communications Interface (SCI), RS232 or 485 |
| Communications Protocol | LADS Simple Protocol |
| 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 |
| Power/Serial Connection | Single RJ45 connector for Power and 232 or 485 serial communications |
| Audible Feedback | Available connector for audible feedback device |
| 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 | 2.5 x 1.8 x 0.5 |
| 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 | Red: Power On Yellow: Reader Active Green: Valid Read |
| LF antenna connector | Two pin Mini-Mate –N –Lok Tyco connector |
| HF antenna connector | Header on board |

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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