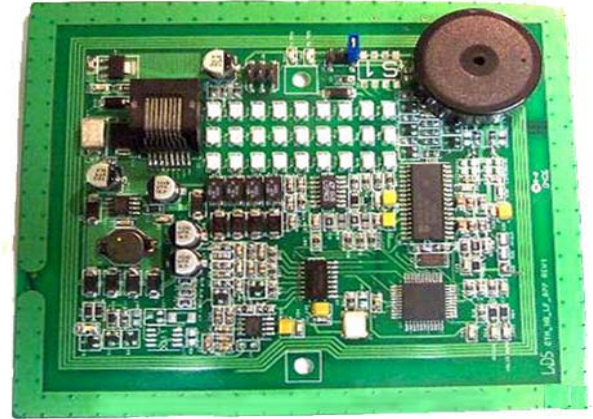




Latest Advanced Digital Solutions, Inc.

**RADIO
FREQUENCY
IDENTIFICATION
DEVICES**



LADS CTM

Data Sheet

Description

The CTM 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. The CTM “Counter Top Module” is offered with and without enclosure. The counter top model is a very reasonably priced reader for the 13.56Mhz transponders being implemented by Master Card and American Express as well as the 15693 transponders currently being used for loyalty and payment projects. The CTM also offers the “Speedpass” frequency that is capable of accepting any of the TIRIS low frequency transponders. The CTM reader without enclosure is offered to equipment manufacturers that need a simple and cost effective alternative to expensive engineering projects. The CTM 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 CTM</i>
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	24 Vdc, regulated +/- 5% <i>12Vdc to 24Vdc module available (PSU2)</i>
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	Enunciator with two levels of volume
Antenna Impedance (hi freq)	50 ohm +/- 5
LF Antenna	On board LF antenna
HF Antenna	On board HF antenna
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

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>