

Product Datasheet OEM Reader Board Aircoil R/W

Article No : TLB – 1x



The TECTUS TLB-1x series of OEM read /write reader boards are what you need, if multi-tag communication, size and price are important.

With its multiple interface options like RS232, RS485, USB and TTL, the TLB - 10 series offers highest flexibility to cover multiple applications. Different firmware versions offers best adoption of the TLB-1x to your applications.

Due to its integrated antenna and voltage regulator, the compact reader board is perfectly suited for a stress less design-in. Two programmable LED indicators and I/O's are on board available.

Frequency	125 /134 kHz +/- 3kHz (at RT)	
Antenna	antenna on board, external antenna (L=191μH, R < 5Ω) can be added in toggle mode	
Read Distance	Short Range (proximity)	
Housing	PCB, no housing	
Dimensions	65 x 55 x 10 mm (2.56 x 2.16 x 0,39 in)	
Power Supply	9..12VDC or 5 VDC	
Typ. Supply Current	Antenna on: 75mA, antenna off 15mA @5VDC (interface active)	
Operating Temperature	-20°C to +65°C (-4F to +149F)	
Interfaces	RS232 (V24), USB, RS485 (V24) and TTL	
Transponder types	<u>Read only :</u>	<u>Read & Write</u>
	UNIQUE (EM4x02)	Q5
	ISO 11784 /5, (FDX-B), EM4x05	HITAG 1
	HITAG-S-32	HITAG-S-256 /2K
Firmware options	Other reader firmware for FDX-A, TROVAN, TIRIS, EM4x25, EM4x70, EM4x50, EM4x66, ATMEL T555x are customized available upon request.	
	• software loader for later firmware updates via serial interface	
	• C-interpreter, programmable offline functionality in C	
	• -SM ; secure mode, AES crypto mode for Q5, HITAG-1, HITAG-S 256 /2K	
	• -LO ; electronic lock firmware (under preparation)	
	• -AC ; access control firmware (under preparation)	
	• -AM ; animal modes, several FDX-A types, FDX-B & HDX (under preparation)	
	The loader and the C-interpreter can be freely mixed with different transponder versions in order to offer a maximum of customization flexibility.	

Features

- Ready to use reader board by connecting power and communication interface
- On board amplifiers for higher performance compare to TLM-10
- on board demodulator to increase sensitivity compare TLM-10
- Synchronization of multiple readers via SYNC
- 3 / (2) free configurable I/O port, (RS485 with only 2 IO's)
- No quartz or external clock needed
- 5V input and 9..12VDC
- Offline functionality macro programmable by the customer
- Application specific firmware versions (ASF) available
- Full customized firmware possible on volume demand
- Signal amplitude measurement to measure the signal strength of the tag
- Command timing at the air interface is adjustable by parameters
- External antenna can be easy added and toggled with the internal one,
- 2 LED's are already board mounted and can be controlled via the IO's
- Low power consumption

Specials

Reader boards with ASK, FSK or PSK demodulators can be offered on volume demand, as well as multi demodulator reader boards (ASK + PSK + FSK)

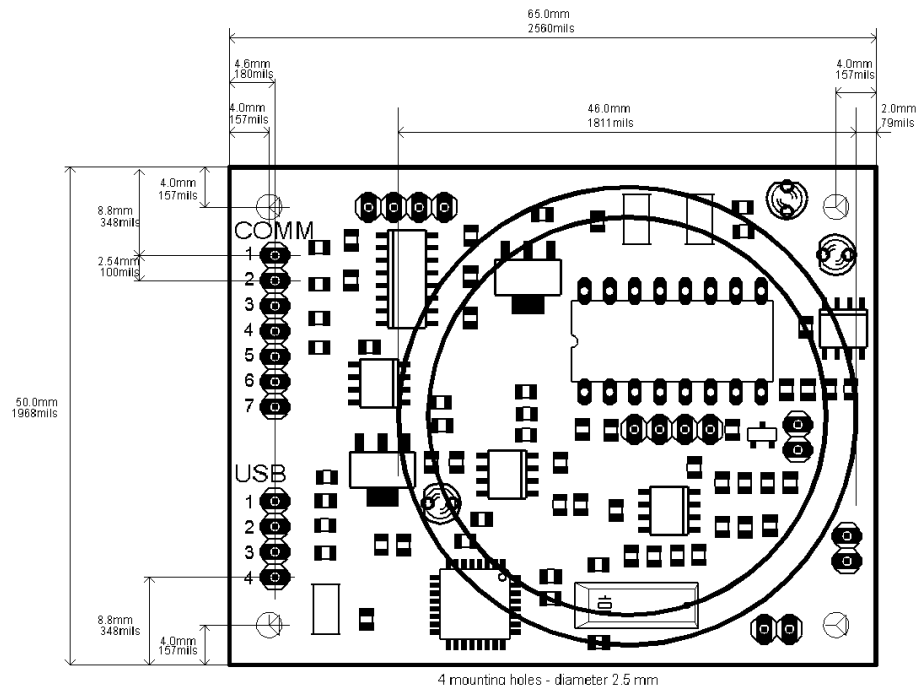
Technical Certificates

CE /ISO9001 manufactured

Inputs / Outputs

3 digital I/O's, (RS485 with 2 I/O's), 2LED's on board

Board shape



Order No

TLB – 11.aa = RS232 (V24)
TLB – 12.aa = USB

TLB – 13.aa = RS485 (V24)
TLB – 14.aa = TTL

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