TECTUS *PRO* series

Product Datasheet
Midrange OEM Reader Board R/W

Article No : TPB – 1x

The TPB-1x is a brand new, high performance reader board for industrial applications. It combines most modern technology like anti-collision, synchronous demodulation for ASK, PSK, FSK and multi-tag reading with easy use.
With the built in C-interpreter, the customer programs his own application functionality inside the reader, avoiding permanent host communication. The board is equipped for maximum flexibility with multiple interfaces, 3 solid states relays, 4 digital I/O, RS232, RS485, USB and optional Ethernet. The power amplifier to achieve stable communication over long distance.

Frequency	Multi frequency, 100 KHz to 150Khz, Software tunable
Antenna	External parallel circuits, auto tuning in 16 stages
Read Distance	Depending on antenna design and transponder selection up to long range
Cerificates	CE, ISO 9001 manufactured
Dimensions	100mm x 150mm (W x L)
Power	18..24V 350mA /2A (typ. /max.); optional : TPBV-94 power supply board available

Transponder types

	Functions supported by the TLB-10			
	Read / Write	Anti collision	Baud rate	Modulation
UNIIQUE (EM4x02)	R		2 /4 KBaud	ASK /PSK
ZOODIAC (ISO 11784 /5 FDX-B)	R		4 Kbaud	ASK /FDX
HITAG 1 /2	R+W	yes	2 Kbaud	ASK
HITAG- S- 32 /256 /2K	R+W	yes	2 /4 /8 Kbaud	ASK
ORION (EM4x25)	R	yes	4 Kbaud	ASK
MAGIC (EM 4x70)	R+W		custom	ASK
TITAN (EM4x50)	R+W		2 KBaud	ASK
EM 4269	R+W		2…8 Kbaud	ASK
Q5 / ATMEL E5551 - E5554	R+W		2…10 Kbaud	A /P /F SK
Q6 / ATMEL E5557	R+W	yes	2…8 KBaud	ASK
TIRIS (ISO 11784 /5 -HDX)	R		custom	FSK-HDX
-				
	implemented		Q3 /2004	

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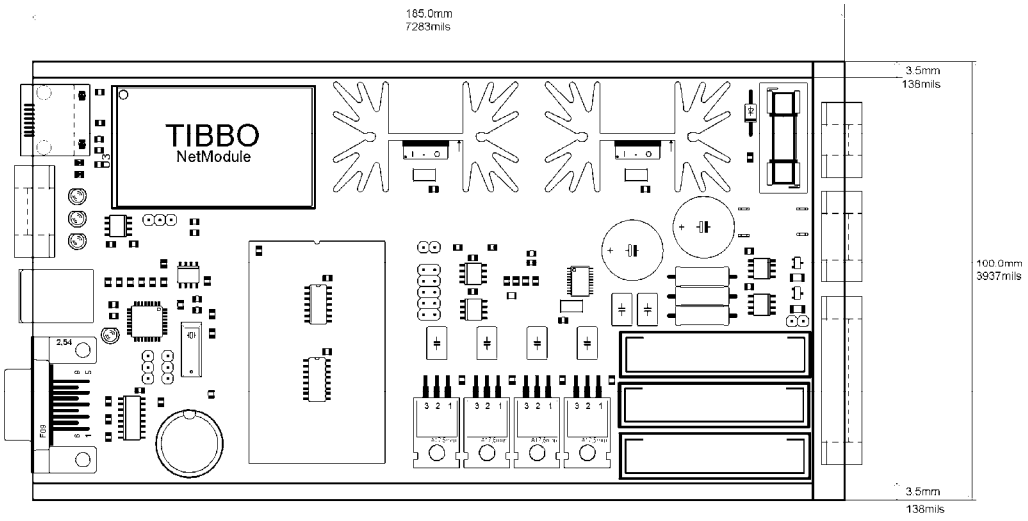
TECTUS TPB-1x

Modulation	Amplitude, Phase, Frequency Shift Keying (ASK, PSK, FSK)
I/O	3 solid state relays on board, 4 digital I/O´s
Interfaces	R232, RS485, USB, Ethernet optional available
Antenna drivers	2 Antennas can be added in parallel to build a gate
Synchronization	Several readers can be synchronized using the SYNC connector and operate in close relation (2D and 3D reader gates)
Multiplexing	Three on board outputs for MUX control of up to 8 antennas

Specials

- C-interpreter implemented, offline functionality of the reader is C programmable by the user
- Auto tuning of the resonance frequency in 16 stages
- RS232 programmable for firmware updates
- 3 solid states relays and 5 digital I/O's on board
- Protocol compatible to TLM-30, TLB-1x, TPM-10
- Amplifier power out is software adjustable
- Full anti-collision with ORION (EM4x25), HITAG 1, HITAG S
- Multi modulation, multi frequency, multi tag reader
- Sinus wave form for antenna signal
- Synchronous demodulation, QAM demodulator

Drawing / Connections



Order Numbers

TPB-11.aa	version with RS232, RS485 and USB
TPB-12.aa	version with RS232, RS485 ,USB and Ethernet
TPB-94.aa	power supply board 110 /240VAC; 24VDC

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