




**TLB-60 PLUG and PLAY
HF 13,56 MHz
OEM RFID READER BOARD
with USB or RS232
READ-/ ONLY/ WRITE
ISO 15693
ISO-IEC 14443
ISO-IEC 18000-3**

Description:	OEM RFID Reader PLUG and PLAY Module to read and write ISO 15693 and HF Mifare ISO14443A RFID TAGs
Frequency:	13,56 MHz (at RT 20° C)
Antenna:	Integrated antenna (symmetric HF interface)
Read Distance:	Short range up to 85 mm (depends on antenna and TAG size and environmental conditions)
Dimensions:	Very small outline (70 x 45 x 12.1) mm (± 1 mm)
Weight:	16 g ± 10%
Supply Voltage / Current:	5VDC ± 10% regulated, ca. 70 mA depending on antenna
Operating temperature:	-20°C to +80°C
Storage temperature:	-20°C to +85°C
Input / Outputs:	LED, 4 I/O Ports, 3 testpins for signals from the reader IC
Interfaces:	USB or RS23 interfaces allows easy connect to PC
Transponder types:	ISO-IEC 14443: NXP: Mifare® Standard, Mifare® Ultralight, Mifare® Desfire, Mifare® Plus Infineon: SLE66R35, SLE66R32P ISO 15693 compliant RFID TAGs including the NXP I-CODE and Infineon MyD family as well as RFID TAGs compatible to ISO18000-3 Mode 1
Technical Certificates:	CE
Features:	<ul style="list-style-type: none"> - Low cost, small size multi purpose transceiver for 13.56MHz ISO15693 transponders. - Read of serial Number with anticollision, full read and write support. - Authentication support. APDU support. - Bootloader for firmware updates. - Security support on request. - ASCII Protocoll
Part number:	TLB-60-USB-1514 TLB-60-RS232-1514 

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**TLB-60-AA-PLUG and PLAY
HF 13,56 MHz
MIFARE PLUS
OEM RFID READER BOARD
with USB or RS232
READ-/ ONLY/ WRITE
ISO-IEC 14443
ISO-IEC 18000-3**

<p>Features:</p>	<ul style="list-style-type: none"> - The TLB-60– Mifare OEM Reader board is capable to read and write contactless ISO14443A compliant RFID TAGs including the NXP MIFARE® Family as well as ISO14443A compatible tags. Both MIFARE® Classic as well as the security enhanced Mifare® Plus and Desfire® are fully supported. ISO15693 compliant RFID TAGs including the NXP I-CODE-, the Infineon MyD family and also other RFID TAGs compatible to ISO18000-3 Mode 1 are supported. - The compact design and the serial interface enables a fast and easy integration into your RFID application. - A customized external antenna which fits as best to the application could be connected as well. - Antenna tuning during design in or production is supported by the availability of dedicated test signals from the on board reader IC. - The USB or RS232 interfaces allow easy connect to PC. - The module has 5 additional digital I/O pins. - For a fast integration a C# library is available.
<p>Typical applications:</p>	<ul style="list-style-type: none"> - Desktop readers - Time attendance and access control systems - Cashless payment systems - E ticketing - Printer - Multi applications - Intelligent consumer products (vending machines) - Security applications

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