The TWN3 LEGIC NFC transponder reader is designed for easy integration into various applications.

The device supports either USB or RS232 communication just in dependence on the connection cable and is available as ready-to-connect desktop reader in a slim line black or white housing or as a OEM board (PCB) without housing for direct integration into embedded applications.

Readers can be programmed with a script language for autonomous execution of even complex commands like login procedures, increment/decrement functions and many more.

Additional features for OEM PCB version:

- 5 V serial TTL interface
- 2 General Purpose Outputs
### Technical Data

<table>
<thead>
<tr>
<th>Housing</th>
<th>Material ABS UL94-V0, colour black or white</th>
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<tbody>
<tr>
<td>Frequency</td>
<td>13.56 MHz</td>
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</table>
| Dimensions    | Desktop Reader: 88mm x 56mm x 18mm / 3.5inch x 2.2inch x 0.7inch  
OEM Board: 76mm x 49mm x 14mm / 3.0inch x 1.9inch x 0.6inch |
| Power Supply  | 5V ± 10% via communication cable (USB); serial version requires external power supply |
| Supply Current| 140mA typ. (USB, normal operation); 200mA peak |
| Temperature   | Storage: -45°C up to +85°C (-49°F up to 185°F)  
Operating: -25°C up to +80°C (-13°F up to 176°F) |
| Antenna       | PCB Aircoil                                 |
| R/W Distance  | up to 100mm / 4 inch (depending on transponder) |
| Host Interface| USB, RS232. The OEM board supports both and an additional serial TTL interface via a separate connector |
| OS Support    | Windows Vista, XP, 7 (32-/64-bit) and Linux |
| Communication Parameters | USB: Full speed (12 MBit)  
RS232: Baudrate: 1200, 2400, 4800, 9600, 19200, 38400, 57600  
Parity: none, even, odd |
| Modes of Operation | USB keyboard emulation  
USB virtual COM port (bi-directional communication)  
Direct access to built-in RFID module (transparent mode) |
| Special Features | Powerful scripting language |
| Supported Transponders |  
- LEGIC Advant  
- LEGIC Prime  
- ISO14443 A+B compatible to part 4: MIFARE DESFire EV[3], MIFARE Plus[3], MIFARE SmartMX[3], my-d move (SLE66RxX)[3], PayPass[3], etc.  
- ISO15693: EM4035, Tag-It, my-d vicinity (SRF55Vxx), ICOE SL[3]  
- MIFARE Classic[3], MIFARE Ultralight[3]  
- Sony FeliCa[3]  
- NFC Forum Tag Type 2-4  
- PicoPass[3], HID ICLASS[3] |
| Certifications | CE, R&TTE, RoHS-II compliant, FCC, IC, VCCI |
| Weight        | Approximately 15g (without housing) |
| Order Code    | OEM board Desktop reader: ART13790  
USB black: ART13857  
USB white: ART13858  
Serial black: ART13859  
Serial white: ART13860 |

¹UID only ²Encryption not supported ³UID only, read/write depending on demand

### Accessories

| Order Code | Snap-in holder  
ART13512 black, ART15344 white  
Bracket Holder  
ART15203 black, ART15235 white  
ART11493 USB cable 200cm / 78.74inch  
ART13488 USB cable 45cm / 17.72inch  
ART13829 USB cable 120cm / 47.24inch  
ART14269 USB cable mini 12cm / 4.72inch  
ART12240 RS232 cable 200cm / 78.74inch |
| Order Code | ART14712 Power Supply (EU)  
ART14714 Power Supply (AU) |

### Drawing / Pin Out

Refer to document DS_TWN3 Reader Family Pinouts