

OEM READER MODULE READ-WRITE



Frequency:	125 kHz or 134 kHz +/- 3.0 kHz (at RT) without external clock								
Antenna:	External antennas, just add a coil (L=360µH, R < 10Ω) to the internal tuning cap								
Read Distance:	Short Range, up to midrange with external circuitry (application note)								
Housing:	Plastic, IP67 with 16 x PIN-OUT (DIL-16 /400mil)								
Dimensions:	22,86 x 15,24 x 8 mm (0,9 x 0.6 x 0.31 inches)								
Power supply:	3.3 or 5.0 VDC;								
Typ. Supply current:	< 60mA antenna ON and < 1mA (3mA) antenna OFF @ 3,3V (5,0V)								
Boot delay after POR :	< 10mSec without loader ; > 0,5 Sec with integrated loader								
Operating temperature:	0°C to +40°C (32F to +104F)								
Interfaces:	Wedge (serial TTL); Wiegand 26 and magstripe ABA track II								
Standard Firmware:	<table border="0"> <tr> <td><u>Read only :</u></td> <td><u>Read & Write</u></td> </tr> <tr> <td>UNIQUE (EM410x)</td> <td>Q5</td> </tr> <tr> <td>ISO 11784 /5, (FDX-B),EM4x05</td> <td>HITAG 1</td> </tr> <tr> <td>HITAG-S-32</td> <td>HITAG-S-256 /2K</td> </tr> </table> <p>Other reader firmware for EM4x25, EM4x70, EM4x5x, EM4269, TIRIS, ATMEL T555x ASK, PSK, FSK are customized available upon request. (see page 3)</p>	<u>Read only :</u>	<u>Read & Write</u>	UNIQUE (EM410x)	Q5	ISO 11784 /5, (FDX-B),EM4x05	HITAG 1	HITAG-S-32	HITAG-S-256 /2K
<u>Read only :</u>	<u>Read & Write</u>								
UNIQUE (EM410x)	Q5								
ISO 11784 /5, (FDX-B),EM4x05	HITAG 1								
HITAG-S-32	HITAG-S-256 /2K								
Firmware features:	<ul style="list-style-type: none"> • software loader for later firmware updates via serial interface • forth-interpreter, programmable offline functionality in forth • Command-interpreter, including all diagnostic and I/O functions • -SM ; secure mode, AES crypto mode for HITAG-1, HITAG-S 256 /2K • -AM ; ISO11784/5 (FDX-B & HDX) • -QX ; possibility to read different FDX-A modes (ASK, PSK, FSK) <p>The different firmware modules can be optional mixed in order to offer a maximum of customization flexibility. Custom tailored firmware can be designed upon request.</p>								
Technical Certificates:	CE								
Interface:	Serial (TTL)								
Part number:	TLM-30-AA								

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<p>Features:</p>	<ul style="list-style-type: none"> • Short-range reader, by connecting the Antenna direct to OUTDRIVE, INHIGH connectors at the TLM-30 • Up to mid-range reader by using external amplifiers und demodulators • Adding of external amplifiers for higher performance via TXSIG • External demodulators to increase sensitivity via INLOW • 3 free configurable I/O ports, eg. LED / buzzer • No crystal needed (int. resonator), external clock can be added via CLOCK • 3,3 V and 5V input • programmable offline functionality via Forth-interpreter • Firmware updates via serial interface (loader required) • application specific firmware versions (ASF) available over internet • full customized firmware possible on volume demand • Signal amplitude measurement to measure the signal strength • Command timing at the air interface is adjustable by parameters • Synchronous demodulation
<p>Product dimension:</p>	<p>All dimensions in millimeters</p>
<p>Pin out and Block Diagram:</p>	

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