

OEM READER MODULE READ-WRITE



Frequency:	125 kHz or 134 kHz +/- 3.0 kHz (at RT)										
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, 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:	5.0 VDC;										
Typ. Supply current:	< 60mA antenna ON and < 3mA antenna OFF										
Boot delay after POR :	< 10mSec without loader ; > 0,5 Sec with integrated loader										
Operating temperature:	-20°C to +65°C (-4F to +149F)										
Interfaces:	Serial TTL										
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 , ATMEL 5577</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> <tr> <td colspan="2">Other reader firmware for EM4x25, EM4x70, EM4x5x, EM4269, are customized available upon request.</td> </tr> </table>	<u>Read only :</u>	<u>Read & Write</u>	UNIQUE (EM410x)	Q5 , ATMEL 5577	ISO 11784 /5, (FDX-B),EM4x05	HITAG 1	HITAG-S-32	HITAG-S-256 /2K	Other reader firmware for EM4x25, EM4x70, EM4x5x, EM4269, are customized available upon request.	
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Other reader firmware for EM4x25, EM4x70, EM4x5x, EM4269, are customized available upon request.											
Firmware features:	<ul style="list-style-type: none"> • software loader for later firmware updates via serial interface • 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) <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-AR										

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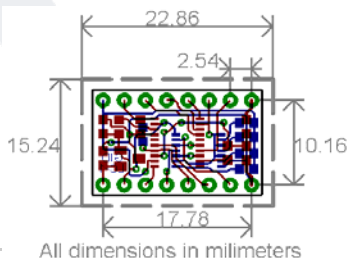


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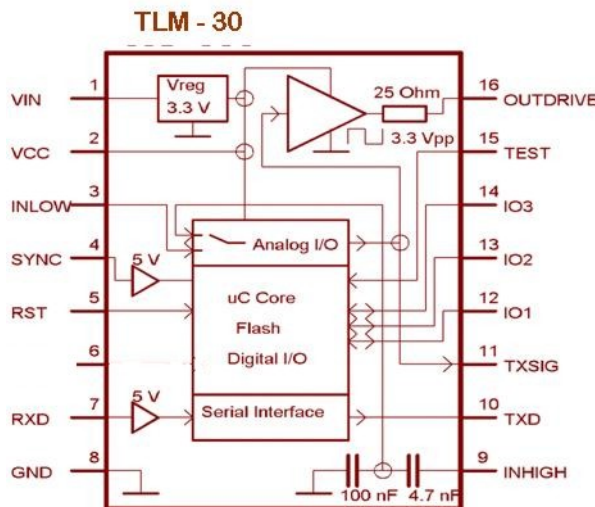
Features:

- 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)
- Firmware updates via serial interface (loader required)
- full customized firmware possible on request
- Signal amplitude measurement to measure the signal strength
- Command timing at the air interface is adjustable by parameters
- Synchronous demodulation

Product dimension:



Pin out and Block Diagram:



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