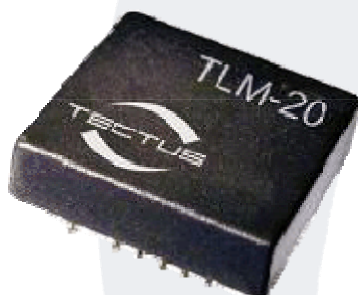


RFID
LF 125 kHz
Read Only
OEM Reader Module
with
Integrated Antenna

Frequency:	125 kHz +/- 2,5 (at RT)
Antenna:	Integrated Antenna
Read Distance:	Short range (up to 120mm with ISO cards)
Housing:	Plastic, IP67 with 9 x PIN-OUT
Dimensions:	26 x 25 x 7 mm (1 x 1 ¹ / ₄ x 1/4 inches)
Supply voltage / current:	4.6 to 5.4 VDC / 30 mA nominal
Operating temperature:	-20°C to +50°C (-4F to +122F)
Interfaces:	Wedge (serial TTL); Wiegand 26 and magstripe ABA track II
Transponder types:	Manchester encoded cf/64 64 bit Read only EM4100, EM4200 (Unique) OTP : Q5, HT-S (operating in Read Only Unique Mode)
Technical Certificates:	CE
Features:	- Most common interfaces for access control / time & attendance are implemented - Interface selection via pin-out - LED or beeper control pin - Needs just 5V DC to become an OEM reader - Provides an excellent reading performance, without adding external circuitry - Low cost, small size - Shortest possible design-in phase
Part number:	TLM-20-AA





**RFID
LF 125 kHz
Read Only
OEM Reader Module
with
Integrated Antenna**

Pin description:	PIN N°	Description	ASCII	Magnetic stripe emulation	Wiegand 26																						
	PIN 1	Zero Volts and Tuning Capacitor Ground	GND 0V	GND 0V	GND 0V																						
	PIN 2	Strap to + 5V	Reset Bar	Reset Bar	Reset Bar																						
	PIN 3	To external Antenna and Tuning Capacitor	Antenna	Antenna	Antenna																						
	PIN 4	To External antenna	Antenna	Antenna	Antenna																						
	PIN 5	Card Present	No Function	Card Present	No Function																						
	PIN 6	Future	Future	Future	Future																						
	PIN 7	Format Selector (+/-)	Strap to GND	Strap to PIN 10	Strap to + 5V																						
	PIN 8	Data 0	TTL Data (Inverted)	Clock	Zero Output																						
	PIN 9	Data 1	CMOS	Date	One Output																						
	PIN 10	3.1 kHz Logic	Beeper / Led	Beeper / Led	Beeper / Led																						
	PIN 11	DC Voltage Supply	+ 5V	+ 5V	+ 5V																						
Pin out:			<table border="1"> <tr><td>1.</td><td>GND</td></tr> <tr><td>2.</td><td>RES (Bar Reset)</td></tr> <tr><td>3.</td><td>ANT (Antenna)</td></tr> <tr><td>4.</td><td>ANT (Antenna)</td></tr> <tr><td>5.</td><td>CP</td></tr> <tr><td>6.</td><td>Future</td></tr> <tr><td>7.</td><td>+/- (Format Selector)</td></tr> <tr><td>8.</td><td>D0 (Data Pin 0)</td></tr> <tr><td>9.</td><td>D1 (Data Pin 1)</td></tr> <tr><td>10.</td><td>LED (LED / Beeper)</td></tr> <tr><td>11.</td><td>+ 5 V</td></tr> </table>			1.	GND	2.	RES (Bar Reset)	3.	ANT (Antenna)	4.	ANT (Antenna)	5.	CP	6.	Future	7.	+/- (Format Selector)	8.	D0 (Data Pin 0)	9.	D1 (Data Pin 1)	10.	LED (LED / Beeper)	11.	+ 5 V
			1.	GND																							
2.	RES (Bar Reset)																										
3.	ANT (Antenna)																										
4.	ANT (Antenna)																										
5.	CP																										
6.	Future																										
7.	+/- (Format Selector)																										
8.	D0 (Data Pin 0)																										
9.	D1 (Data Pin 1)																										
10.	LED (LED / Beeper)																										
11.	+ 5 V																										
Marketing tool:	<p>TECTUS Mini Reader Modules are fully integrated low cost readers at minimized dimensions, focused to access control and time & attendance applications</p> <p>The TECTUS TLM-20 is already equipped with an integrated antenna, making it a plug & play EM4100 /EM4200 (UNIQUE) reader.</p> <p>TLM-20 Mini Reader Module comes already with a wide variety of selectable data transmission protocols, like wedge (ASCII), wiegand26 and magnetic stripe (ABTRKII).</p>																										

© TECTUS reserves the right to change any information or data in this document without prior notice. The distribution and the update of this document is not controlled. TECTUS declines all responsibility for the use of products with any other specifications but the ones mentioned above. Any additional requirement for a specific customer application has to be validated by the customer himself at his own responsibility. Where application information is given, it is only advisory and does not form part of the specification.