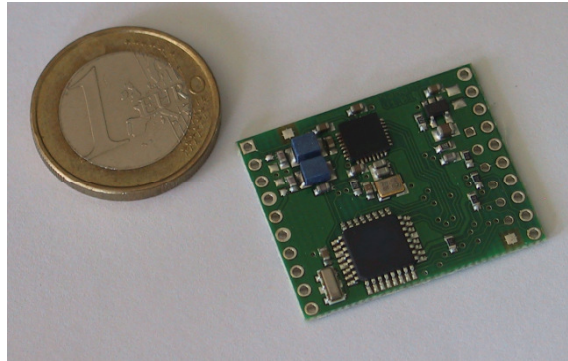


### Nano Reader Module Mifare®



Elatec's nano reader module is designed for integration into machines, handheld computer or any other device. The focus has especially been set on size, price and flexibility.

Thanks to its compact dimensions, integration directly on a PC board is possible.

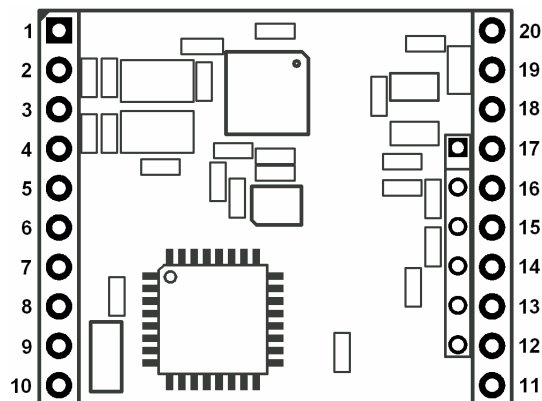
Unique features are: 4 (four) user configurable ports (to be configured as input or output), beeper support and different sleep modes for lowest power consumption. The simple proprietary ASCII protocol enables quick software development cycles. All host communication is done via serial TTL interface.

## Technical data

<b>Housing</b>	without
<b>Frequency</b>	13.56 MHz
<b>Dimensions (L x W x H)</b>	30.48 x 25.40 x 3.5mm
<b>Power supply</b>	3.3 – 5.0 V DC
<b>Current consumption</b>	Power down: < 300µA RF field off: 2mA RF field on: typically 80mA, depending on antenna
<b>Temperature range</b>	-20°C up to +60°C (-4°F up to +140°F)
<b>Antenna</b>	To be connected externally
<b>Read- / write distance</b>	Proximity, depending on antenna
<b>Transponders supported</b>	<ul style="list-style-type: none"> <li>• mifare® ultralight, light, mini</li> <li>• mifare® Standard 1k</li> <li>• mifare® Standard 4k</li> <li>• mifare® DESFire</li> </ul>
<b>Weight</b>	Approx. 5g
<b>Order code</b>	AXD010

All dimensions approximately and in mm.  
Raster unit 2,54 mm.

## Schematically picture (component side)



## Pinning

Pin	Name	Description
1	AntRX	Antenna receiver input
2	AntTX1	Antenna transmitter output 1
3, 20	VCC	3.3 - 5V
4, 6, 19	GND	Ground
5	AntTX2	Antenna transmitter output 2
7, 8, 9, 10	NC	Not connected
11	RXD	TTL receiver input
12	TXD	TTL transmitter output
13	GPIO0	General purpose input/output 0
14	GPIO1/Beeper	General purpose input/output 1, connection port for beeper
15	Reset	Asynchronous reset
16	Enable	Hardware power up/down
17	GPIO2	General purpose input/output 2
18	GPIO3	General purpose input/output 3

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**Elatec GmbH, Identification Systems**  
Max-Planck-Str. 16, D-82223 Eichenau, GERMANY  
Phone: +49 8141 53498-0  
Fax: +49 8141 53498-29  
RFID@elatecworld.com

**Elatec Vertriebs GmbH**  
Hans-Pinsel-Str. 10b, D-85540 Haar, GERMANY  
Phone: +49 89 462307 - 0  
Fax: +49 89 462307 - 99  
info@elatecworld.com