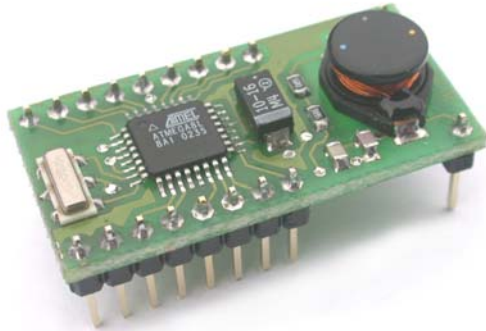


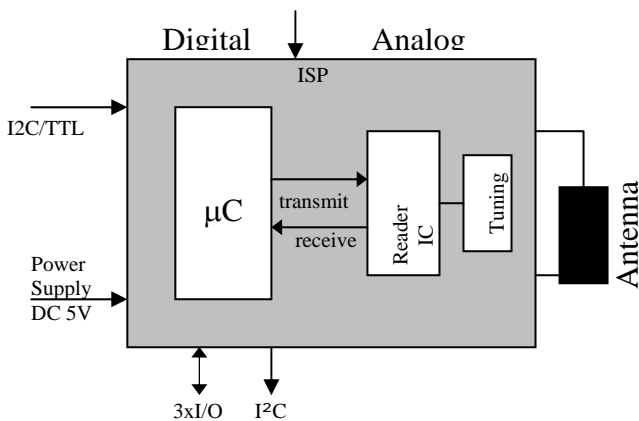
## TRANSPONDER AND COMPONENTS



### Miniature Reader MR-1000

- 125 kHz Reader / Writer
- Format DIL 28 Socket
- Transponder 125 kHz
- ISP Flash Software Update
- Interface RS-232 (TTL), I2C, SPI, (ISP)
- I/O Pins (switch, Relay, LED,..)
- integrated antenna (extern possible)
- easy to integrate

#### Schematic Diagram:



#### Technical Data:

Dimensions (lwxhxh):	(36,5x18x10) mm
Power supply:	5V DC ±5%
Current consumption:	<60mA (stand-by 5mA)
Frequency:	125 KHz
Transponder: implemented up to 3 different types	EM4102 EM4x50 Hitag 1 Hitag 2 Hitag S 256 / 2048 ATA 5567 /5577
Antenna:	antenna on Board, pins for external antenna
Interface :	RS-232 (TTL), I <sup>2</sup> C , SPI, ISP, optional Wiegand
Operating:	-20°C .. +65°C
Application example:	transmit Tag-ID (+CR/LF) as long as the Transponder is in the reading field - Firmware on customer needs