

Features

- ◆ Passive transponder with on-chip energy storage capacitor, hence no external supply buffer capacitor is needed
- ◆ Operating at 13.56 MHz with on-chip tank capacitor
- ◆ Anti-collision capability
- ◆ Communication range up to 1 meter
- ◆ 2k bits of wireless-programmable EEPROM
- ◆ On-chip rectifier and voltage limiter
- ◆ ISO/IEC 15693 compliant

Operating Reference Data

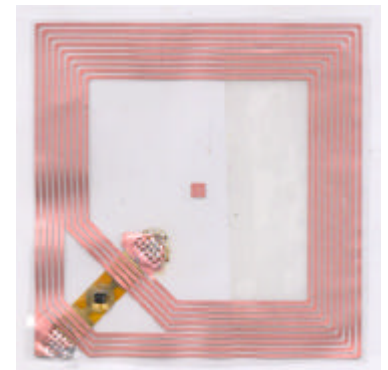
Temperature Range -40 to 85°C
 Supply Voltage, V_{DD} 0.9 to 1.5 V
 Typical Supply Current (activation field) 7 μ A
 Frequency Range 13.56MHz \pm 7 kHz

Functional Operation

Communication Procedure

1. The tag is powered up by the operating field generated by the reader
2. The tag is ready in idle mode
3. The reader sends a command
4. The tag responds to the command

Wireless tag (actual size) ↗



Modes of Operation

ZMD41201	Downlink	Uplink
Modulation	10% or 100% selectable	ASK or FSK selectable
Data Rate Selections	Long distance: 1.65k bit/s or fast transmission: 36.48k bit/s	Low: 6.65k bit/s or high: 26.6k bit/s*
Any combination is possible	(ISO/IEC 15693 compliant)	

*) High data rate is slightly depending on selected modulation (ASK or FSK).

For further information:

BU Wireless
 Tel.: +49 (0)351 31530-370
 Fax: +49 (0)351 31530-21
 e-mail: wireless@zmd.de

ZMD AG
 Grenzstrasse 28
 D-01109 Dresden
<http://www.zmd.de>

ZMD Neuchâtel Office
 Avenue Edouard-Dubois 20
 Case postale 50, CH-2006 Neuchâtel
 Tel.: +41 327310-488 ; fax: +41 327310-490