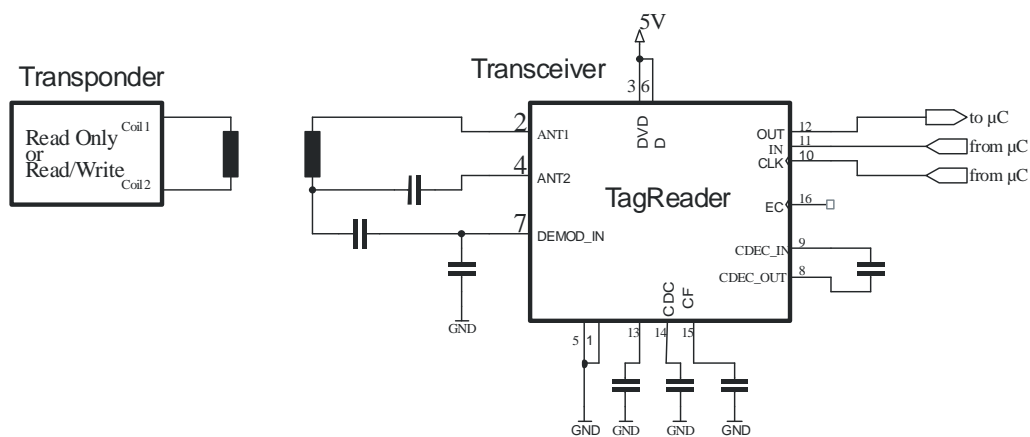
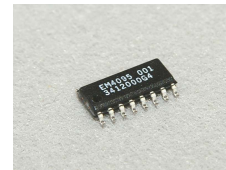


Tag Reader IC

The TagReader base station is a fully integrated CMOS transceiver IC circuit intended for the use in a RFID base station to perform to the following functions:

- Integrated PLL system to achieve self-adaptive carrier frequency to antenna resonant frequency
- Internal or external clock source
- 100kHz to 150kHz carrier frequency range
- Direct antenna driving using bridge driver
- Data transmission by OOK (100% Amplitude Modulation) using bridge driver
- Multiple transponder protocol compatibility
- Simultaneous send / receive mode
- Two sampling points for demodulation
- Sleep mode 1µA
- USB compatible power supply range
- -40°C to +85°C automotive temperature range
- Small outline plastic package SO16



Type	• ASIC
Frequency (kHz)	• 100 – 150
Sleep mode current (µA)	• 1µ A
Integrated PLL system	• Yes
Multiple transponder protocol compatibility	• Yes
Internal and external clock source	• Yes
Supply voltage (V)	• 5
Dual IQ demodulators for Zero crossing effect elimination	• Yes
Driver antenna bridge (mA)	• 250mA continuous

Elatec 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. Elatec declines all responsibility for the use of product 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.

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

Elatec Vertriebs GmbH
 Hans-Pinsel-Str. 10b, D-85540 Haar, GERMANY
 Phone: +49 89 46 23 070 ;
 Fax: +49 89 460 24 03
info@elatec.de