

# CRS-2000 DATA Spec

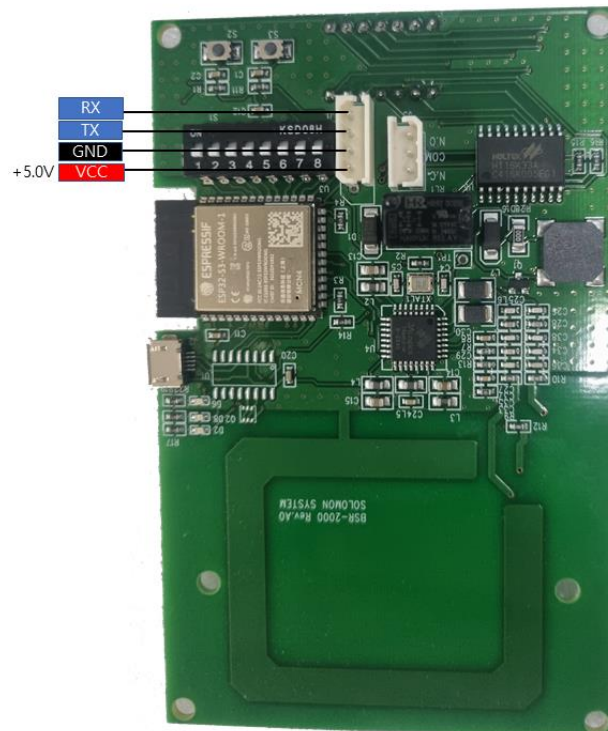
This CRS-2000 RFID Development kit is based on NXP's a highly integrated reader/writer IC TRH031M for contactless communication at 13.56 MHz. The TRH031M reader supports ISO/IEC 14443 A/MIFARE and NTAG. The TRH031M's internal transmitter is able to drive a reader/ writer antenna designed to communicate with ISO/IEC 14443A cards and transponders without additional active circuitry. The receiver module provides a robust and efficient implementation for demodulating and decoding signals from ISO/IEC 14443A compatible cards and transponders.



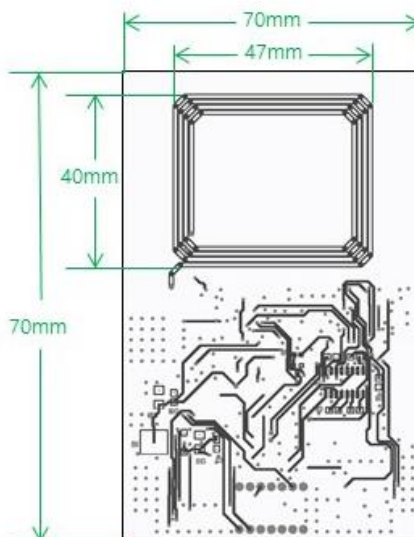
## Brief Data:

- Operating Voltage: 5.0V.
- Operating/Standby current: 13~26mA/10~13mA.
- Operating Frequency: 13.56MHz.
- Supports ISO/IEC 14443A higher transfer speed communication up to 848 KBd.
- SPI bus speed up to 10Mbit/s.
- I2C-bus interface up to 400 kBd in Fast mode, up to 3400 kBd in High-speed mode.
- RS232 Serial UART up to 1228.8 kBd, with voltage levels dependant on pin voltage supply.
- Compatible with MIFARE and ISO 14443A cards.
- Typical operating distance in Read/Write mode up to 50 mm depending on the antenna size and tuning.

### Interface Pins Function:



### Mechanical Dimension:



*P.S: This module does not support RFID cards which operate at 125KHz frequency range. It supports only the cards which operate at 13.56MHz frequency range.*