



TRH031M

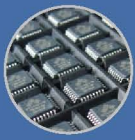
◆ Specification

Item	Spec.
Frequency	13.56MHz
Modulation Type	ASK 8~100%
Operating Range	ISO 14443 A/B: <10cm, ISO 15693: <150cm
Supply Voltage	2.7V ~ 3.6V
Die Size	2.5 mm × 2.5 mm
Package Size	7.0 mm × 7.0 mm
Package	LQFP (32pin)
Process	Magnachip 0.35um CMOS
Application	<ul style="list-style-type: none"> - Digital Door-Lock / Access Control Reader - Asset Management Terminal - Contactless Payment Terminal - Smart Label Printer - Portable Data Terminal - Handheld Terminal - On Board Unit

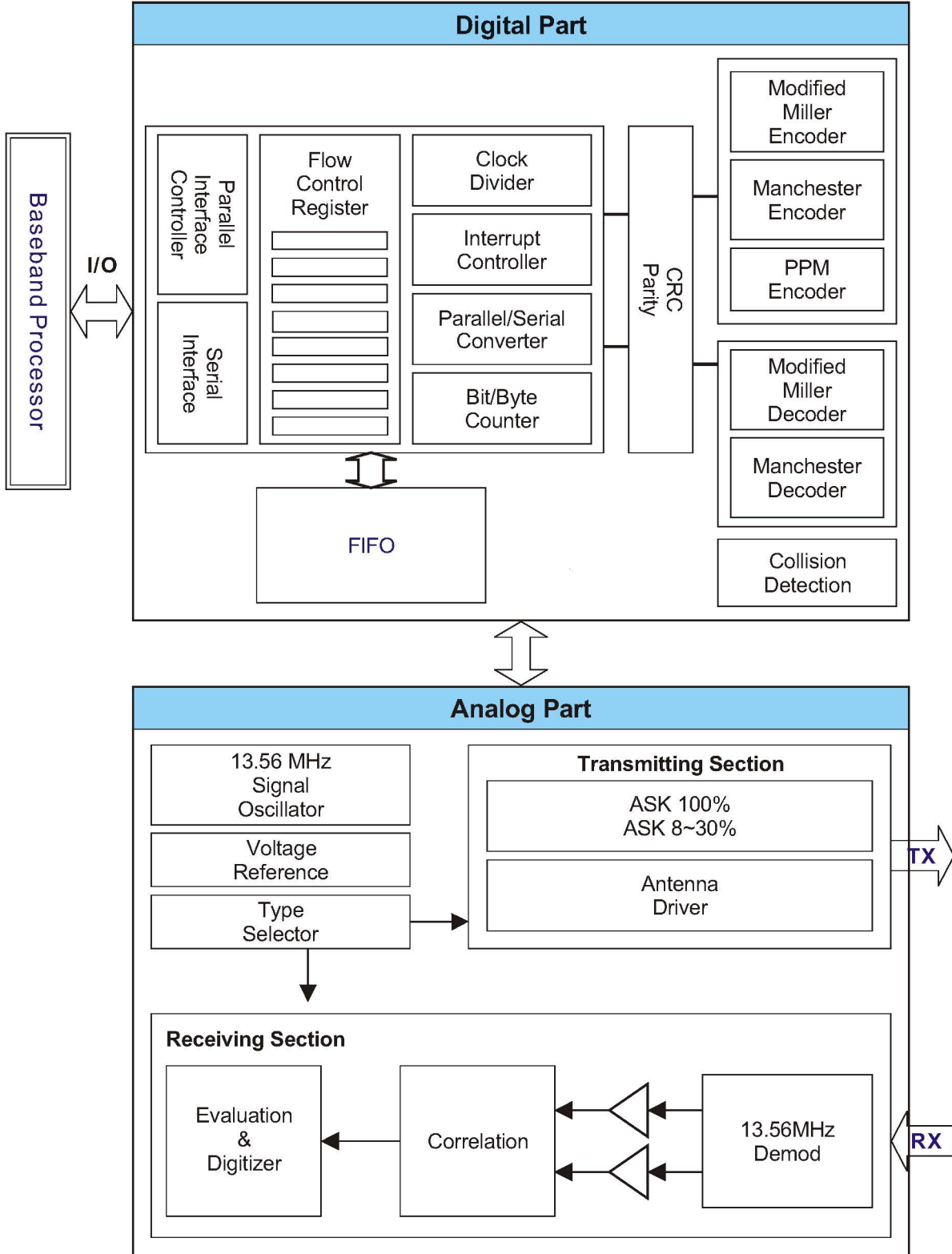
◆ Feature

- Highly integrated analog circuitry to demodulate and decode card response
- Buffered output drivers to connect an antenna with minimum number of external components
- Supports ISO/IEC 14443 Type A, Type B and ISO 15693 standards
- Comfortable 64-byte send and receive FIFO-buffer
- Programmable 8-bit timer with pre-scaler
- 3.3V operation for analog interface and digital part
- Internal oscillator buffer to connect 13.56 MHz quartz
- Supports SPI compatible serial interface
- Supports unique card detection function for low power consumption application
- Supports I-code and Tag-it protocol

ISO 14443 A/B and 15693 RFID Reader IC



◆ Block Diagram



ISO 14443 A/B and 15693 RFID Reader IC