1. Features

This device is a RF Transceiver for DSRC based on ARIB STD-T75

Transmitter (TX) Block
- Modulation: ASK 1024kbps / $\pi/4$-shift QPSK 4096kbps
- Digital Data Input for Transmit
- Internal PA: Output Power +14dBm

Receiver (Rx) Block
- Internal LNA
- Demodulation: ASK 1024kbps / $\pi/4$-shift QPSK 4096kbps
- Demodulated Digital Data Output
- Simultaneous Demodulation for ASK and $\pi/4$-shift QPSK
- Integrated IF-Filter for adjacent channel suppression
- Synthesizer
  - Fractional Synthesizer with integrated VCO
- Master Clock
  - 16.384MHz +/-20ppm TCXO input
- Power Supply
  - +3.15 to +3.45V
- Operating Temperature
  - -40 to +85°C
- Package
  - 48-pin QFN 7.0x7.0 (0.5mm pitch)