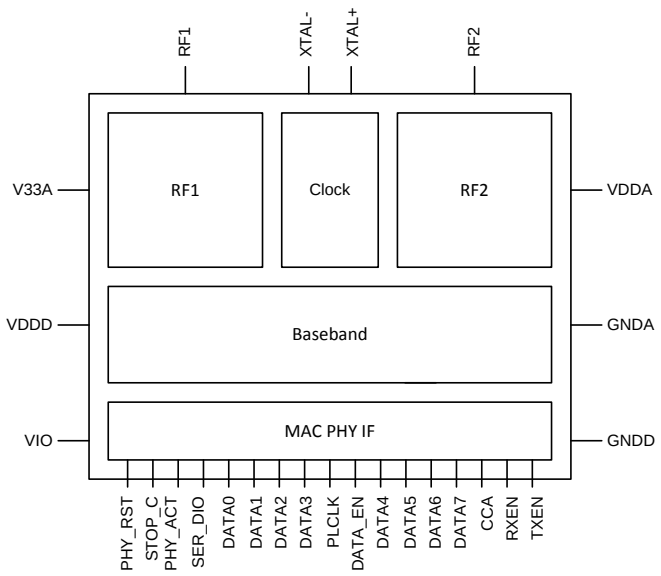
RTU7010-GR WiMedia Compliant UWB CMOS PHY

General Description

RTU7010 is a highly integrated, high performance, WiMedia-compliant Ultra Wide Band (UWB) physical layer (PHY) solution.

Block Diagram



Certification, Logo and Band Group Support

Completed Certifications	RTU7010-GR
WiMedia	✓
Wireless USB	NA
FCC	✓
TELEC	✓
CE	✓

Supported Band Groups	RTU7010-GR
BG1	✓
BG3	x
BG6	x
BG4	x

Features

- Compliant to WiMedia PHY Technical Specification Release 1.1
- Multiple RF chains for transmit and receive diversity
- Supports transmission and reception of burst mode and burst preamble in all permitted modes, enabling improved data throughput
- Supports Transmit Power Control and Link Quality Indicator
- Data rates of 53.3, 80, 106.7, 160, 200, 320, 400, 480Mbps supported
- Efficient correction algorithms for residual DC offset, phase noise, frequency offset and timing offset due to RF impairments
- Selectable digital transmit and receiver FIR filters provided to meet the requirement of transmit spectrum mask and to reject the adjacent channel interference
- Fast receiver automatic gain control (AGC) and antenna diversity functions
- MAC-aided transmit power control
- On-chip calibration for center carrier leakage, Tx power control, Rx DC offset and BB LPF corner frequency

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