

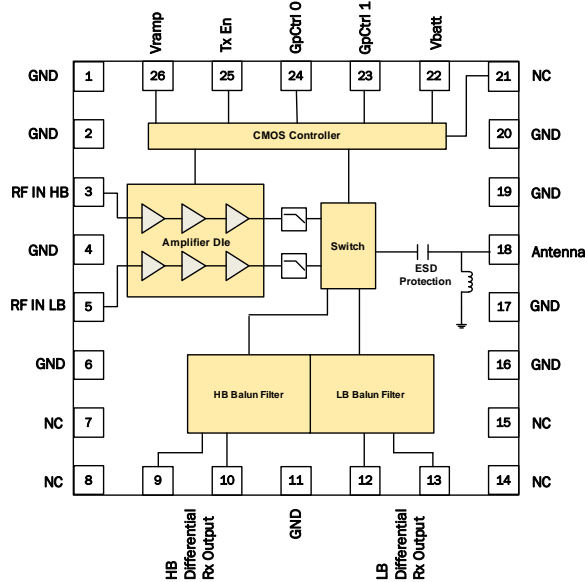


Features

- Enhanced Performance Transmit Module
- High Efficiency at rated P_{OUT}
 $V_{BATT} = 3.5V$
 GSM850 42%
 EGSM900 40%
 DCS1800 36%
 PCS1900 37%
- Integrated Baluns and Filtering on RX Port
- ISM Rejection on RX Ports > 20dB
- Differential RX Ports Allow Layout Flexibility
- Integrated Power Flattening Circuit
- Integrated V_{BATT} Tracking Circuit
- 8kV Robust ESD Protection at Antenna Port

Applications

- 3V Quad-Band GSM/GPRS Handsets
- GSM850/PCS1900 or EGSM900/DCS1800 Products
- GPRS Class 12 Compliant



Functional Block Diagram

Product Description

The RF7183 is a quad-band (GSM850/EGSM900/DCS1800/PCS1900) GSM/GPRS Class 12-compliant transmit module with integrated Baluns and filtering for improved ISM rejection. The four RX ports are 100Ω impedance and provide a differential output to allow flexibility when interfacing with various transceiver configurations.

The RF7183 features RFMD's latest integrated power-flattening circuit, which significantly reduces current and power variation into load mismatch. Additionally, a V_{BATT} tracking feature is incorporated to maintain switching performance as supply voltage decreases. The RF7183 integrates an ESD filter to provide excellent ESD protection at the antenna port.

RF7183	Quad-Band Tx, Dual-Band Rx GSM, GPRS Transmit Module
RF7183SB	Transmit Module 5-Piece Sample Pack
RF7183PCBA-41X	Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

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|--|--------------------------------------|--|------------------------------------|
| <input checked="" type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input checked="" type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> GaN HEMT |
| <input type="checkbox"/> GaAs MESFET | <input type="checkbox"/> Si BiCMOS | <input checked="" type="checkbox"/> Si CMOS | <input type="checkbox"/> BiFET HBT |
| <input type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si BJT | <input type="checkbox"/> LD MOS |

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RF7183



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