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## QUAD-BAND TX, DUAL-BAND RX GSM, GPRS TRANSMIT MODULE

### Package Style: Module 6.63mm x 5.24mm x 1.0mm



RFMD 🗐 RF7182

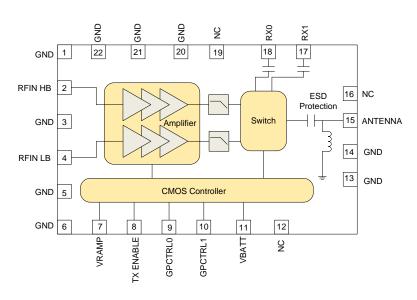
REND 182

#### **Features**

- Enhanced Performance Transmit Module
- No External Routing
- High Efficiency at rated P<sub>OUT</sub> V<sub>BATT</sub> = 3.5V GSM850 42% EGSM900 40% DCS1800 36% PCS1900 37%
- 8kV Robust ESD Protection at Antenna Port
- Low Rx Insertion Loss
- Symmetrical Rx Ports
- OdBm to 6dBm Drive Level, >50dB of Dynamic Range
- Integrated Power Flattening Circuit

#### **Applications**

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



Functional Block Diagram

#### **Product Description**

The RF7182 is a quad-band GSM/GPRS Class 12 compliant transmit module (GSM850/EGSM900/DCS1800/PCS1900) with two symmetrical receive ports. This transmit module builds upon RFMD's leading power amplifier with PowerStar<sup>®</sup> integrated power control technology, pHEMT switch technology, and integrated transmit filtering for best-in-class harmonic performance. The results are high performance, a reduced solution size, and ease of implementation. The device is designed for use as the final portion of the transmitter section in a GSM850/EGSM900/DCS1800/PCS1900 handset and eliminates the need for PA-to-antenna switch module matching network.

The RF7182 features RFMD's latest integrated power-flattening circuit, which significantly reduces current and power variation into load mismatch. The RF7182 also integrates an ESD filter to provide excellent ESD protection at the antenna port. The RF7182 is designed to provide maximum efficiency at rated  $P_{OUT}$ .

RF7182Quad-Band Tx, Dual-Band Rx GSM, GPRS Transmit ModuleRF7182SBTransmit Module 5-Piece Sample PackRF7182PCBA-41XFully Assembled Evaluation Board

# Optimum Technology Matching® Applied ✓ GaAs HBT SiGe BiCMOS GaAs pHEMT GaAs MESFET Si BiCMOS Si CMOS BiFET HBT InGaP HBT SiGe HBT Si BJT

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7628 Thorndike Road, Greensboro, NC 27409-9421 · For sales or technical support, contact RFMD at (+1) 336-678-5570 or customerservice@rfmd.com.





Please contact RFMD Technical Support at (336) 678-5570 for more information.