

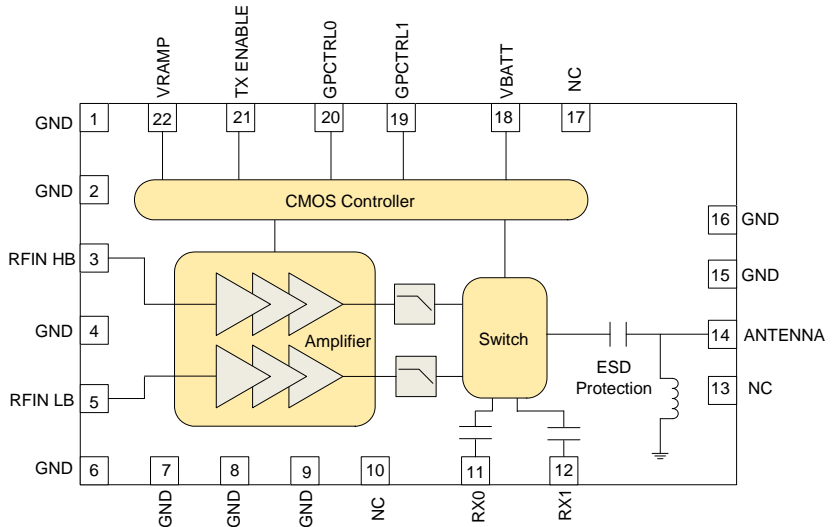


Features

- Enhanced Performance Transmit Module
- No External Routing
- High Efficiency at rated P_{OUT}
 $V_{BATT} = 3.5V$
 GSM850 42%
 EGSM900 40%
 DCS1800 36%
 PCS1900 37%
- 8kV Robust ESD Protection at Antenna Port
- Low RX Insertion Loss
- Symmetrical RX Ports
- 0dBm 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 RF7176 is a quad-band (GSM850/EGSM900/DCS1800/PCS1900) GSM/GPRS Class 12 compliant transmit module with two symmetrical receive ports. This transmit module builds upon RFMD's leading power amplifier with PowerStar® 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 RF7176 features RFMD's latest integrated power-flattening circuit, which significantly reduces current and power variation into load mismatch. The RF7176 also integrates an ESD filter to provide excellent ESD protection at the antenna port. The RF7176 is designed to provide maximum efficiency at rated P_{OUT} .

RF7176	Quad-Band TX, Dual-Band Rx GSM, GPRS Transmit Module
RF7176SB	Transmit Module 5-Piece Sample Pack
RF7176PCBA-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"/> RF MEMS |
| <input type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si BJT | <input type="checkbox"/> LD MOS |

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RF7176



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