

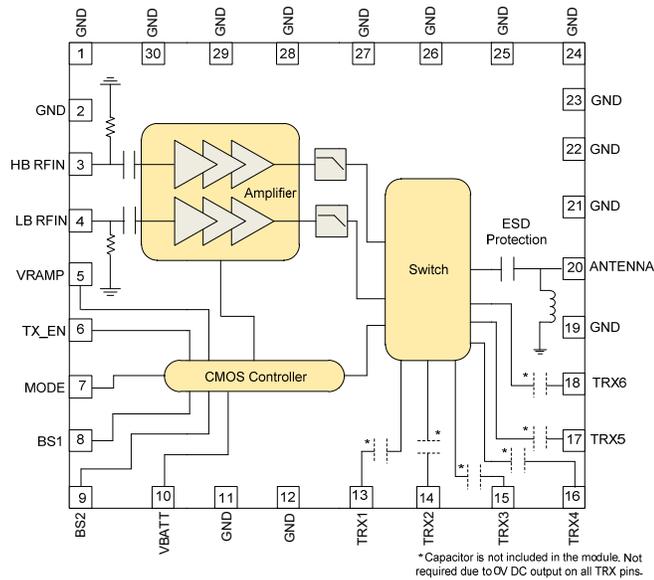


Features

- High Efficiency at Rated P_{OUT}
V_{BATT} = 3.5
GSM850/EGSM900 = 43%
DCS1800/PCS1900 = 36%
- Integrated Power Flattening Circuit
- Integrated V_{BATT} Tracking Circuit
- 8kV Robust ESD Protection at Antenna Port
- No External Routing
- No External DC blocking needed on TRx Ports
- Low TRx Insertion Loss for 3G efficiency and improved Rx sensitivity
- Six high linearity TRx Ports
- High TRx to TRx isolation
- 0dBm to 6dBm Drive Level, >50dB of Dynamic Range

Applications

- Single thru Quad Band UMTS handsets and connected devices including TDSCDMA and CDMA
- GSM850/EGSM900/DCS1800/PCS1900 Products
- 3V Multimode Mobile Applications
- GPRS Class 12 Compliant



Functional Block Diagram

Product Description

The RF3235 is a quad-band (GSM850/EGSM900/DCS1800/PCS1900) GSM/GPRS Class 12-compliant transmit module with six transmit/receive ports for UMTS use that also serve as GSM Rx ports. This transmit module builds upon RFMD's leading PowerStar® integrated power control technology, SOI (silicon-on-insulator) switch technology, and integrated transmit filtering for best-in-class harmonic performance. The results are high performance, 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/UMTS handset and eliminates the need for a PA-to-antenna switch module matching network. The device provides 50Ω matched input and output ports requiring no external matching components.

The RF3235 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 RF3235 also integrates an ESD filter to provide excellent ESD protection at the antenna port.

Optimum Technology Matching® Applied

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|--|--------------------------------------|---|------------------------------------|
| <input checked="" type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input 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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RF3235



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