

QUAD-BAND GPRS/LINEAR EDGE TRANSMIT MODULE WITH TWO UMTS PORTS

Package: Module 6.63 mmx5.24 mm 1.0 mm



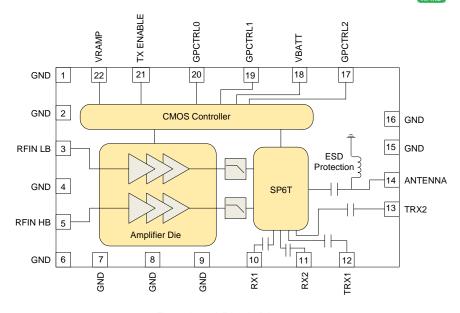


Features

- High Efficiency at Rated POLIT $V_{BATT} = 3.5 V$ Low Band = 40% High Band = 35%
- Integrated Power Flattening Circuit for Lower Power Variation under Mismatch Conditions
- Integrated V_{BATT} Tracking Circuit for Improved Switching Spectrum under Low V_{RATT} Conditions
- Dual Mode Operation
- Digital Bias Control
- EDGE Low Power Mode
- 8kV Robust ESD Protection at Antenna Port
- Symmetrical RX Ports
- Two High Linearity TX/RX **UMTS Ports**
- OdBm to 6dBm Drive Level, >50dB of Dynamic Range

Applications

- For Single- and Dual-Band 3G **Applications**
- GSM850/EGSM900/ DCS1800/PCS1900 **Products**
- 3.2V Multimode Mobile **Applications**
- GPRS Class 12 Compliant
- Mobile GPRS/EDGE Data **Products**



Functional Block Diagram

Product Description

The RF3233 is a guad band (GSM850/EGSM900/DCS1800/PCS1900) GPRS/Linear EDGE Class 12 compliant transmit module with two symmetrical receive ports and two high linearity UMTS ports for single- and dual-band multi-mode applications. 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. RF3233 is designed to operate in either saturated mode for GMSK or linear mode for EDGE 8PSK signalling and also features EDGE low power mode. 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 and 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 RF3233 features RFMD's latest integrated power-flattening circuit, which significantly reduces current and power variation into load mismatch. Additionally, a V_{RATT} tracking feature is incorporated to maintain switching performance as supply voltage decreases. The RF3233 also integrates an ESD filter to provide excellent ESD protection at the antenna port.

Ordering Information

RF3233 Quad-Band GSM850/EGSM900/DCS1800/PCS1900 Transmit Module RF3233SB Transmit Module 5-Piece Sample Pack RF3233PCBA-41X Fully Assembled Evaluation Board

☑ GaAs HBT	☐ SiGe BiCMOS	☑ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	▼ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	☐ Si BJT	☐ LDMOS

RF3233



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