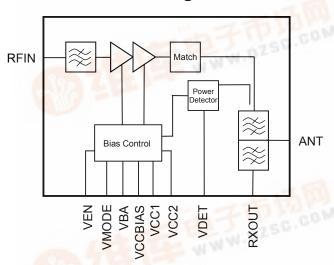


TQM666022

Advance Data Sheet

WCDMA / HSUPA Band II Tritium III PA Duplexer Module™

Functional Block Diagram



Product Description

The Tritium III PAD Module [™] is an integrated 3V Linear Power Amplifier, Duplexer and Transmit Filter Module including a highly accurate Output Power Detector designed for mobile UMTS handset applications, supporting HSUPA operation with transmission datarates up to 10Mb/s.

It features two output power modes, additional continuous bias in low power mode, low off and standby currents, and a separate pin for module enable. RF input and output matching is included within the module; therefore, minimal external circuitry is required. Tritium III™ gives excellent RF performance with low current consumption resulting in longer talk times in portable applications. The tiny 7x4x1.1 mm³ surface mount package is ideal for new generation slim, small and light phones.

Electrical Specifications

Parameter	Min	Тур	Max	Units
Frequency	1852.4		1907.6	MHz
Linear Pout(HSUPA) high power mode		25	- 1111	dBm
Maximum current high power mode	THE PARTY	525	COM	mA
Linear P _{ουτ} (HSUPA) low power mode	THE W.	16		dBm
Idle current low power mode	- Www	15		mA
ACPR (HS <mark>UPA)</mark> 5 MHz		-45		dBc
ALPR (HSUPA) 10 MHz		-60		dBc
Ant-to-RX Insertion Loss		3		dB

Test Conditions: $V_{CC1} = V_{CC2} = 3.4 \text{ V}, T = 25^{\circ}\text{C}$

pdf.dzsc.com

dvance Data Sheet: Subject to change without notice

Por additional information and latest specifications, see our website: www.triquint.com

Features

- Handset Tritium III PAD™ (PA-Duplexer) Module for UMTS Band II (PCS-band)
- Specified for HSUPA Modulation (Transmission Data-Rates up to 10Mb/s)
- Integrates Power Amplifier, Highly Accurate Output Power Detector, Transmit Filter and Duplexer
- No Regulated Voltage Required
- Separate 'Module Enable' Pin
- All RF Ports Matched to 50 Ω
- Low Current Consumption:
 - 2 Power Modes
 - Continuous Bias in Low Power Mode
 - Extremely Low Idle Current (15mA typ.) in Low Power Mode
- Compatible for Low Collector Voltage Operation with DC-DC-Converters

Applications

3G UMTS Handsets and Data-Cards

Package Style

 Compact 7 x 4 x 1.1 mm³ 16-Pin LGA Package

