

## PMB 5703

SMARTi UE – The worldwide first single-chip dual-mode RF Transceiver IC with integrated analog baseband functionality and 3G digRF standard interface



SMARTi UE IS THE FIRST single-chip dual-mode UMTS / EDGE Transceiver IC with 3G DigRF V3.09 standard interface for multi-media and feature-rich mobile devices. It integrates the functionality of a UMTS- and EDGE RF transceiver IC and the mixed signal blocks required for data conversion and RF control. With its standard pure digital interface to the baseband it makes the digital part independent from a specific RF implementation without the need for an additional analog baseband IC.

### Applications

- Worldwide 3GPP UMTS / EDGE (W-EDGE) mobile handsets
- HSDPA / HSUPA (H-EDGE) mobile data devices
- Multi-Band UMTS
- Quad-Band EDGE

### Features

- UMTS, EDGE, GPRS and GSM data conversion from digital into RF domain
- UMTS, EDGE, GPRS and GSM data conversion from RF into digital domain
- HSDPA cat. 10 (14.4 Mbps)
- HSUPA cat. 6 (5.76 Mbps)
- TRP / TIS support
- Integrated control of front-end components
- 3G DigRF V3.09 digital interface
- Integrated  $\mu$ -controller for simplified programming and calibration
- Low-power / smallest-size

### Technology

- Based on Infineon's C11 130 nm RF-CMOS Technology
- PG-WF2SGA-121 package
  - 6.0 x 6.0 mm
  - Green product (lead (Pb) and halogen free)

[www.infineon.com/rfengine](http://www.infineon.com/rfengine)

## RF Engine



Never stop thinking

How to reach us:

<http://www.infineon.com>

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