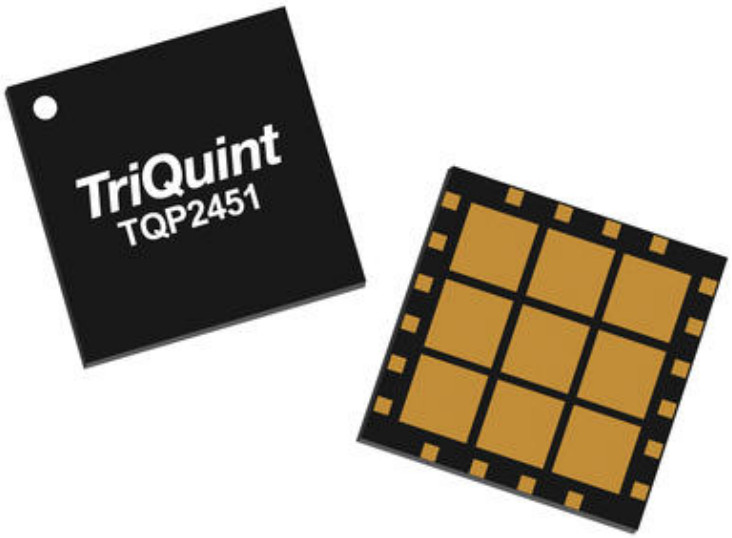
Small Cell PAs Offer Big Performance

WDD Staff



RFMW [1](San Jose, CA) has announced design and sales support for two “Small Cell” power amplifiers from TriQuint [2] (Hillsboro, OR). The TQP2451 [3] and TQP2453 [4] support 1,900 and 1,800 MHz transmitter designs respectively. With average power output of 2.5 W, both devices include 3 gain stages, the final stage being a Doherty design for high peak power performance up to 20 W. The TQP2451 covers 1,930 - 1,995 MHz with power added efficiency of 38% and <-50 ACLR. The TQP2453 offers 35% PAE over 1,805 - 1,885 MHz. Both the TQP2451 and TQP2453 utilize 18 and 5 V Vcc. Both devices are offered in a 20 x 20 mm package for 3G/4G wireless infrastructure, linearized transmitters, MIMO, and heterogeneous networks applicable to small cells.

Specifications for each include:

TQP2451:

- Frequency Min: 1.93 GHz.
- Frequency Max: 1.995 GHz.
- P1dB Typ. : 34 dBm.
- Gain: 35.2 dB.
- V d: 5 V.
- I d: 60 mA.
- Power Added Efficiency: 38%.

TQP2453:

- Frequency Min: 1.805 GHz.
- Frequency Max: 1.885 GHz.
- P1dB Typ. : 34 dBm.
- Gain: 33.6 dB.
- V d: 5 V.
- I d: 60 mA.
- Power Added Efficiency: 35%.

For more information visit rfmw.com [5].

Source URL (retrieved on *10/22/2014 - 11:24pm*):
http://www.wirelessdesignmag.com/product-releases/2014/05/small-cell-pas-offer-big-performance

Links:
[1] http://www.rfmw.com/PortalMain.aspx
[2] http://www.triquint.com/
[3] http://www.rfmw.com/ProductDetail/TQP2451-TriQuint/496294/pid=1170
[4] http://www.rfmw.com/ProductDetail/TQP2453-TriQuint/496295/pid=1170
[5] http://www.rfmw.com/