



Industry-leading power efficiency in a space-saving package.

Key Features

- ▲ **Integrated dual-band** PCS and Cellular
- ▲ **Innovative HELP3™** technology for industry-leading power efficiency
- ▲ **75% reduction** in power consumption compared with competing devices
- ▲ **7 mA quiescent currents** for longer talk and standby times
- ▲ **<1 μA leakage current** in shutdown mode extends battery life even further
- ▲ **53% less board space** required than for two separate PAs
- ▲ **Compact 3 mm x 5 mm package** to reduce PCB space
- ▲ **HSDPA and HSUPA compliant** for ultra-fast throughput
- ▲ **Integrated voltage regulator** to save space and reduce BOM

Longer Talk! Fewer Chips! More Bands! Dual-Band HELP3™ WCDMA Power Amplifiers

We're Right Beside You

Innovation Saves Power

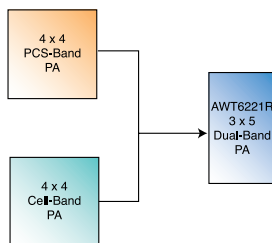
The new AWT6221R PA brings ANADIGICS innovation to a new level of space-saving efficiency. Our HELP3™ PAs already offer the lowest average power consumption in the industry—up to 75% lower than conventional PAs. In real-world applications, these savings can mean up to 25% longer battery life. Through selectable bias modes, the HELP3™ PAs achieve optimal efficiency across the low-range and mid-range output power levels, where the PA typically operates.

Innovation Saves Data Transmit/Receive Times

With support for HSDPA and HSUPA, uploads and downloads are faster than ever. Users can surf the web, view multimedia, and download music at speeds that eliminate the wait.

Innovation Saves Space

And now we've integrated both PCS and cellular bands into a single 3 mm x 5 mm device. Not only can you save up to 53% in real estate

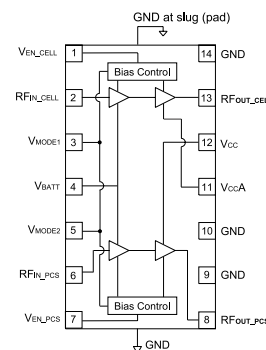


The dual-band AWT6221R WCDMA PA saves 53% in board space.

over using separate PCS and cellular PAs, an integrated voltage regulator eliminates the need for an external DC-to-DC converter. The result is additional space savings and reduced bill of materials.

Innovation Saves Design Time

The AWT6221R features a common battery connection and common V_{MODE} pin to reduce routing, simplify connections, and decrease design complexity. Plus, the internal regulator, reduced number of external components, and single-chip design simplify design even further.



Put Innovation Right Beside You

To learn more about how ANADIGICS can support your 3G designs, visit our website at <http://www.anadigics.com/dualband-flyer>. Enter your contact information at our WCDMA internet-based resource center to participate in our product launch contest. The winner, selected at random from all entries, will receive an Apple iPod nano (4 GB).



Package Size (mm)	Bands	Efficiency	I _q (mA)	ACLR (dBc, 10 MHz Offset)	Part Number
3 x 5 x 1	Cellular (824 - 849 MHz) PCS (1850 - 1910 MHz)	45% @ +29 dBm 20% @ +16 dBm 8% @ +8 dBm	7	>52	AWT6221R



We're Right Beside You

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