

## Hittite certified for automotive

Hittite Microwave of Chelmsford, MA, USA, a supplier of MMIC-based solutions for communication and military markets, has received ISO/TS 16949:2002 certification for the design, manufacture, and sale of plastic-encapsulated analog and mixed-signal ICs for RF, microwave and millimetre-wave applications for the automotive industry.

ISO/TS 16949 is a Quality Management System that specifies automotive industry quality and manufacturing standards that are more stringent than ISO 9001:2000 requirements.

Also, Hittite has been recertified for ISO 9001:2000, which it has maintained since 1997.

## PAM for wireless infrastructure & ATE yields 10 W

Hittite has launched two fully integrated power amplifier modules that provide 40 dB of small signal gain and a minimum of 10 W output at 1 dB compression for cellular/3G repeaters, wireless data, laboratory, and automatic test equipment applications.

The HMC-C012 operates at 400-1000 MHz, and the HMC-C013 operates at 800-2000 MHz. Both deliver +34 dBm of output channel power with -50 dBc adjacent channel power ratio (ACPR) at 885 kHz offset in CDMA2000 applications.

The built-in protective features include thermal fault protection, over-voltage and reverse voltage polarity protection, as well as DC-blocked RF I/Os. Internal temperature compensation circuitry maintains small-signal gain variations to within  $\pm 1.0$  dB over the entire operating temperature range.

[www.hittite.com](http://www.hittite.com)

# Endwave's telecoms glitch offset by 65% growth in defence

Endwave Corp of Sunnyvale, CA, USA, which supplies RF modules for telecoms networks, defence electronics and homeland security systems, has reported Q4/2005 revenues of \$13.1m, up 15% from \$11.4m a year ago but down 8% from \$14.3m the prior quarter.

The quarterly drop in sales was due to "delays in some telecom orders until early 2006", said Ed Keible, CEO and president. However, defence, homeland security, and other non-telecom sales grew strongly to \$2.8m (22% of revenues). Nevertheless, of about 100 customers that were shipped products, the largest were Nera, Nokia, and Siemens.

In accordance with US Generally Accepted Accounting Principles (GAAP), net loss was cut from \$193,000 the previous quarter to \$152,000. However, this compares with net income of \$238,000 a year ago. Non-GAAP net income was \$78,000,

compared with \$459,000 a year ago and \$732,000 last quarter.

For full-year 2005, sales were \$48.7m, up 47% from 2004's \$33.2m. "Our Defense Systems Division, with nearly 65% year-over-year growth, contributed to this strong performance and validated our strategic efforts to expand beyond the telecoms network business," said Keible. GAAP net loss was cut from 2004's \$4.4m to \$874,000. Non-GAAP net income was \$562,000, compared with a net loss of \$691,000 for 2004. Cash reserves rose from \$21.9m at end-September to \$22.4m at end-December.

"We anticipate growth in our telecom revenues will continue to outpace that of the overall cellular infrastructure market," says Keible. "In the defense electronics and homeland security markets, we expect to see increased demand for high-performance, microwave and millimetre-wave subsystems."

\* Endwave has extended its ISO 9001-2000 quality certification to the more stringent Aerospace Standard AS9100.

\* Endwave has executed a follow-on long-term frame purchase agreement with Nokia (its largest customer for the last five years). The new deal provides a continuous bridge from the previous multi-year agreement to end-2005 for the supply of transceiver products that provide coverage over multiple licensed microwave frequency bands. The transceivers are used as the core RF module for Nokia's FlexiHopper and FlexiHopper Plus microwave radios, which can be used with cellular, fixed and dedicated networks.

The agreement has 'evergreen' status, without an expiration date, and may only be terminated upon 18 months' prior notice or the occurrence of certain events.

[www.endwave.com](http://www.endwave.com)

## Sirenza to supply PAs for first WiMAX-certified CPE

Sirenza Microdevices Inc of Broomfield, CO, USA is to supply its new 2.7-3.8 GHz InGaP HBT-based SZA-3044 single-chip power amplifier IC to Montreal-based Wavesat Inc, a designer of baseband chips for WiMAX-compliant (IEEE 802.16-2004/e standard) systems, for customer premise equipment (CPE).

Wavesat's CPE solution is the first in the world to be certified by the WiMAX forum. "We selected the SZA-3044 power amplifier for our WiMAX CPE solution for its excellent efficiency and linearity, its ability to enable high data rates required for WiMAX applications, and for its low cost, required in emerging CPE

applications," said Pierre Lamoureux, who is Wavesat's VP Engineering & CTO.

\* Sirenza and electronic component distributor Digi-Key Corporation of Thief River Falls, MN, USA have signed a worldwide distribution agreement. As a full-service provider of both prototype/design and production volume quantities of electronic components, Digi-Key currently ships product to more than 120 countries.

Sirenza's IC and multi-chip module product lines include amplifiers, power amplifiers, transceivers, tuners, discrete devices, RF signal processing components, government and

military specified components, signal source components and antennae and receivers for satellite radio.

"Digi-Key as a distribution partner is a key addition to our sales distribution program as it reaches a wide range of customers in diversified RF end markets and is also a preferred distributor to many customers worldwide," stated Bob Van Buskirk, Sirenza's president and CEO.

Sirenza's products will be featured in Digi-Key's printed and online catalogs and will be available for purchase directly from Digi-Key.

[www.sirenza.com](http://www.sirenza.com)