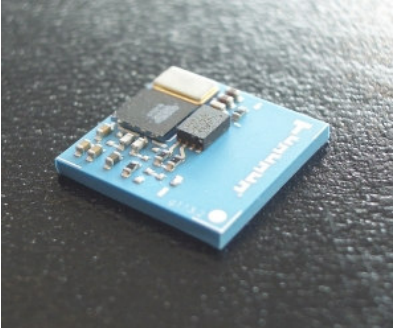


## AvantWave Launches Its Innovative Bluetooth™ Module BTR300S With Integrated Antenna Using CSR BlueCore Single-chip



(Hong Kong – Jan 20, 2005) AvantWave Limited ([www.avantwave.com](http://www.avantwave.com)), one of pioneers in providing Bluetooth™ modules and collaborative services, is proud to launch its innovative Bluetooth™ module - **Bluetron™ BTR300S** by adopting LTCC (Low Temperature Cofired Ceramic) technology. The module employs single LTCC substrate that embeds antenna, balun-filter, impedance matching inductors and capacitor into the ceramic substrate. With its compact size (11mm x 11mm), **Bluetron™ BTR300S** module incorporates with CSR's BlueCore Bluetooth single-chip.

The **Bluetron™ BTR300S** module implements Bluetooth™ 2.0 +EDR (Enhanced Data Rate) which deliver data rates up to 3-times faster than current Bluetooth™ devices within a 10m range. For example, by integrating Bluetron™ BTR300S module with high resolution Digital Camera, transferring the image files (1Mb) would take 4 seconds only.

With the on-chip Bluetooth™ software stack, it provides a fully compliant Bluetooth™ system for both data and voice communications. To improve the performance of both Bluetooth™ and 802.11b/g co-located systems, a wide range of co-existence features are available including a variety of hardware signaling, such as basic activity signaling, Intel WCS activity and channel signaling. The **Bluetron™ BTR300S** module is designed to reduce the number of external components required and to ensure that production costs are minimized. Hence, manufacturers or design houses could simply “plug-n-play” the Bluetron™ BTR300S module without any additional effort.

By comparing with traditional Bluetooth system design, **Bluetron™ BTR300S** SiP (System in Package) with integral antenna would assist in reducing the size of PCB or even product dimensions. In the near future, size of Bluetooth™ enabled portable products would be reduced significantly by adoption of compact **Bluetron™ BTR300S** SiP – The World's smallest integrated antenna Bluetooth module. The **Bluetron™ BTR300S** is complete Bluetooth™ solution for applications, such as:

- Mobile phones
- Smart phones
- PDA
- Digital Camera
- Printers
- Home Entertainment



AvantWave Limited is able to provide a wide range of pre-engineered solutions and qualified modules for next generation of Bluetooth-based wireless communications devices.

Production samples will be available soon, with volume production beginning in Q2 2006.

**AvantWave** 

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