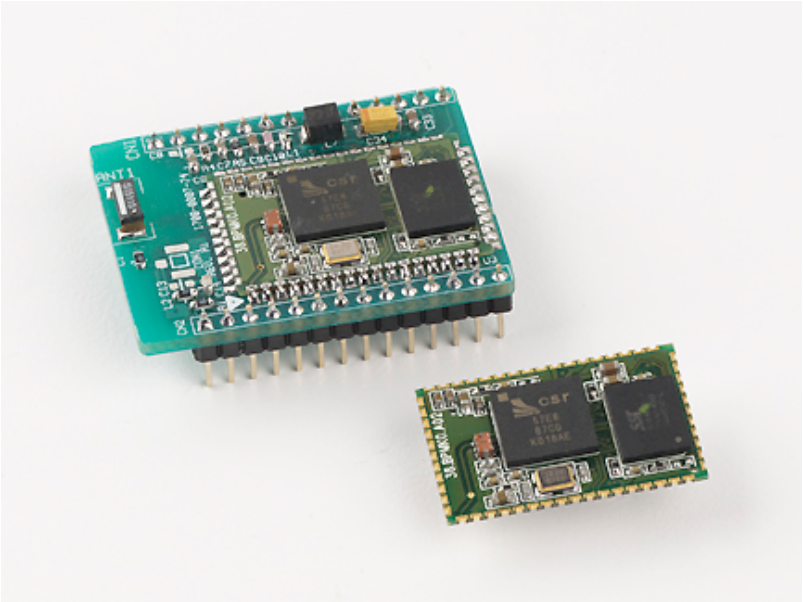
Bluetooth audio module comes with complete DSP, stereo CODEC, flash and antenna



Radicom Research announced today the release of the new Embedded Bluetooth Modules for OEM's. Radicom Research’s RB510 series Bluetooth audio module comes with complete DSP, stereo CODEC, flash and antenna. It offers superior audio quality, power consumption and radio performance, making it ideal for high quality Bluetooth headset designs and other mono and stereo audio applications.

The embedded DSP core is an open platform digital signal coprocessor. This allows product-enhancing features, such as advance audio decoding (MP3, AAC, AAC+), speech recognition, text-to-speech, echo cancellation and noise reduction.

The RB510 and RB510HM are Bluetooth V.2.1 + EDR (Enhanced Data Rate) compliant that increase throughput, reduce battery consumption and improve security. It provides faster pairing and allows superior performance in the presence of interference from 802.11 (WiFi) wireless devices and other 2.4GHz radios.

The RB510 and RB510HM have 8Mbits flash memory on board. OEM specific parameters and settings can be easily loaded into these modules. It provides an efficient method of adding a Bluetooth data link to most embedded applications.

There are two platforms available. The RB510 is a surface mount PCB module with on-board antennas built-in. Continuing the popular Radicom “HM” footprint of 1” x 1”, the RB510HM is a DIP, through-hole module. The 510HM has an U.FL connector built in for attaching an antenna cable allowing flexibility to place antennas at a desired location.

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Source URL (retrieved on *08/29/2014 - 4:20am*):
http://www.ecnmag.com/product-releases/2012/08/bluetooth-audio-module-comes-complete-dsp-stereo-codec-flash-and-antenna