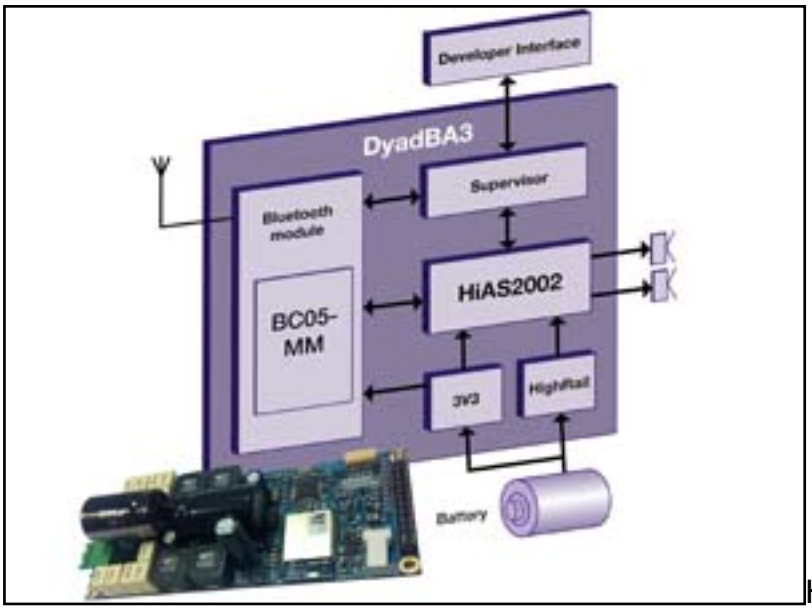
# Bluetooth audio module promises to cut wireless speaker development time




HiWave Technologies announced the DyadBA3 module positioned to enable consumer audio product designers and manufacturers to rapidly introduce power-efficient, Bluetooth-streaming stereo loudspeakers to global markets. The module significantly extends battery life in small-format, portable wireless speakers, according to the company. Combining HiWave's HiAS2002 Audium amplifier chip with CSR's BC-05 Bluetooth technology, the DyadBA3 supports AVRCP and A2DP Bluetooth audio profiles and delivers two channels of 13W burst power output into 8-Ohm speaker drive units. aptX and HSP (headset) profile support is in development. The HiAS2002 extends battery life by up to 20 times at normal listening levels, compared with Class-D amplifiers. The DyadBA3 module may be entirely powered from a single lithium-ion or lithium polymer battery. It incorporates circuitry for charging from a USB host or AC power adapter.

HiWave's Audium audio processing includes multi-step volume control at 1.5dB per step, a mute function with adjustable ramping, and 16 user-definable bi-quad filters for implementing equalisation, voicing, tunable bass extension and stereo-wide effects. The DyadBA3 module self-configures on power-up and invokes power-saving modes when no audio signal is present. It incorporates a stereo microphone input, making it also suitable for desktop or portable VoIP-phone audio portal applications.

Sized 110 x 46 x 25mm, the DyadBA3 module makes an ideal front-end to HiWave's patented BMR (Balanced Mode Radiator) speaker drive units. Pairing the module with two HIBM36S12 BMRs creates a compact, fully portable Bluetooth stereo speaker capable of delivering room-filling sound. For greater volume and frequency range, a pair of HiWave's new HIBM36S05 BMRs will deliver an even higher level of full-range, widely dispersed sound.

**HiWave Technologies**
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