Bluetronics presents RF-modules based on a patented technology - EmbeddedRF

At the exhibition of the Bluetooth Developers Conference in San José December 4-7, 2000, Bluetronics is showing a fully integrated Bluetooth radio module. Meet us in booth number #222.

Bluetronics vision is to become a leading supplier of RF products for short distance communication based on a patented technology - FmbeddedRF.

The Bluetronics design methodology is the result of ten years of research at the ACREO institute.

The company was founded in 1999 by Jan Nilsson, who has been the co-founder of eleven information technology companies, Christer Svensson, Professor of Electronic Devices at Linköping University, Jonas Lundhagen, co-founder of LGP Telecom and Professor Shaofang Gong, who has developed the technology that Bluetronics are built on. The results are based on ten years of research at ACREO, a national research institute for electronics and optics.

Bluetronics' technical-solution is to integrate patch antennas and RF-passive components in the interconnection substrate. These components include inductors, capacitors, baluns, couplers and filters, etc. The first products are miniaturized Bluetooth and WLAN RF-modules at 2.4 GHz. CMOS/BiCMOS radio and base-band/MAC chips are utilized for reducing cost. One of the critical issues for Bluetronics has been to develop an integrated antenna that meets both the Bluetooth and WLAN specifications. Now Bluetronics has succeeded in developing a fully integrated antenna that gives the module an operating range over 10 m at the 0 dBm power. Moreover, Bluetronics antenna is quite omnidirectional, covering almost all angles.

The competitive advantages with Bluetronics RF-modules are many. First, the size of the module is reduced; the first Bluetooth prototype includes both the radio module and the antenna on one plastic substrate of 17x19x3 mm. Second, the performance is enhanced because of the elimination of many parasitic parameters associated with discrete surfacemount devices and solder joints. In addition to the size and performance benefits, the module can be manufactured using existing printed circuit board (PCB) and assembly machineries on large panels, resulting in large volume capacity.

During 2001 Bluetronics will establish representatives in the US and Asia.