Bluetooth Multichip Module

Ericsson Microelectronics' ROK 101 007 is a complete Bluetooth multichip module (MCM) solution for cable replacement and point-to-multipoint applications.

It provides robust performance with up to 7 slave units and incorporates onboard firmware to provide a standardized Host Controller Interface (HCI) for host-based applications. The module is available in volume production now. Designed for use in a wide range of portable and other electronic devices, the ROK 101 007 is a complete wireless unit, excluding antenna, which enables Bluetooth products to be brought to market quickly and reliably. It supports both voice and data applications and includes extensive I/O support for industry standard protocols including USB, UART and PCM. The module is qualified to Bluetooth specification v1.1 and type approved to both FCC and ETSI requirements to simplify and accelerate end product qualification.

The Ericsson module features a receiver with maximum input level of +13 dBm and exceptional dynamic range. This ensures robust com- munication with both nearby and distant transmitters. It features Class 2 output power and operates flawlessly in RF-intensive environments. The ROK 101 007 has an integral crystal oscillator and built-in RF shielding.

This new point-to-multipoint device is pin-compatible with the ROK 101 008 module and can be used to upgrade existing point-to-point designs. The ROK 101 007 is one of a wide range of modular Bluetooth solutions now available in volume from Ericsson Microelectronics, including complete MCMs, baseband controllers and radio transceivers. By relying on Ericsson Microelectronics' Bluetooth experience, particularly with respect to RF design and volume manufacturing, OEMs are able to concentrate resources on developing the functionality and features needed to differentiate their own end products.

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