

Bluetooth Modules for WPAN



National Semiconductor introduced the LMX9814 Bluetooth[®] WPAN (wireless personal area network) module to enable Class 2/3 Bluetooth connectivity in today's portable communications and computing devices. The LMX9814 measures just 10.1 by 14 by 1.9 mm and is ideally suited for the demanding requirements of portable products such as mobile phones, PDAs and laptops. The LMX9814 is also well suited to less space-constrained applications such as desktop computing, printer and scanner products. The LMX9814 is based on National's LMX5250 CMOS radio and LMX5100 baseband processor. In addition to full Bluetooth (V1.1) capabilities, the LMX9814 integrates Flash memory, front end filtering, receive/transmit switching, localized supply voltage decoupling, and USB and UART host control interfaces. The LMX9814 employs an external antenna and can accept a wide range of system clocks from 10 to 26 MHz, thereby supporting the majority of applications with minimal real-estate, cost and power consumption. The LMX9814 supports Bluetooth Class 2/3 transmit power levels, which specify a nominal transmit power of up to +4 decibels referenced to milliwatt (dBm).

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