Wireless Chip and Module Resources

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Aerocomm [1]. Aerocomm offers a complete line of wireless modules for several frequency bands and packaged wireless systems for serial, USB and Ethernet connections.

Alereon [2]. Chips from Alereon include a wireless-USB and WiMedia-compliant MAC, a baseband processor and an RF transceiver.

Analog Devices [3]. The ADF70xx transmitters and ADF702x transceivers work well in automatic meter reading, industrial-automation, alarm and security systems and similar applications that require low-power consumption and long-range communications.

Cirronet [4]. Now a part of RF Monolithics, this company offers a wide range of ZigBee, IEEE 802.15.4 and proprietary-protocol devices, from modules to packaged systems.

Daintree Networks [5]. Daintree provides several software packages that snoop on ZigBee communications to help engineers debug and test networks.

Flexipanel [6]. You can buy a wide variety of ZigBee and other types of wireless modules from this UK-based company.

Freescale [7]. Freescale's MC1322x land-grid array (LGA) package contains a 32-bit MCU, an IEEE 802.15.4 transceiver, balun and RF matching components. The Freescale Web site provides a lot of useful information about ZigBee.

Frontline Test Equipment. [8] The real-time IEEE 802.15.4/ZigBee protocol analyzer from Frontline fits into a finger-size USB dongle that connects to almost any PC. Software simplifies understanding complex ZigBee network data and helps reduce debug time. And software allows user-defined decoding of any IEEE 802.15.4- based protocol.

Integration [9]. This company supplies a range of EXRadio ICs that comply with the IEEE 802.15.4 standard. The chips can operate as ZigBee transceivers with the addition of the company's CompXs stack. The company sells demonstration and development kits.

Helicomm [10]. The company offers a variety of IEEE 802.15.4 radio modules for ZigBee and other applications.

MaxStream [11]. MaxStream provides certified ZigBee wireless products in its XBee

line of wireless modules and stand-alone wireless modems. The XBee and XBee-PRO ZigBee modules offer developers easy-to-implement devices that provide long-range communications. The company sells modules, development kits and packaged radio modems.

Meshnetics [12]. Meshnetics offers ZigBee software and modules as well as a ZigBee-Ethernet gateway that connects a ZigBee network to a LAN. Developers can buy a ZigBee development kit.

Rabbit Semiconductor [13]. Rabbit employs the MaxStream XBee 2.4-GHz ZigBee modules on its development boards to provide development systems for engineers.

Renesas [14]. Renesas has collaborated with ZMD, an early provider of ZigBee and other RF chips to provide wireless chip sets. Chips and kits are available now from Renesas. During 2008, Renesas will provide a single chip that combines a transceiver and an MCU.

Silicon Laboratories [15]. Developers can buy ZigBee and IEEE 802.15.4 development kits and modules that operate on the 2.4 GHz band. The kits and modules highlight the company's 8051-architecture processors and use the Helicomm ZigBee stack.

ST Microelectronics [16]. The SN250 chip from ST provides a complete IEEE 802.15.4 transceiver and the SN260 provides a ZigBee transceiver that includes a ZigBee stack.

Telegesis [17]. A series of ZigBee modules and development kits from Telegesis are all based on chips and tools from Ember. Telegesis offers a USB-stick ZigBee transceiver, too.

Tendril [18]. Tendril specializes in building-monitoring applications and has developed the Tendril Operating Network Platform that can simplify the development of a ZigBee network of sensors. The company also sells a USB ZigBee/IEEE 802.1.5.4 transceiver that acts as a PC access point for a network.

Texas Instruments [19]. The Low Power RF Products group within TI provides a 1-chip, 2.4-GHz RF transceiver (CC2420) that complies with the IEEE 802.15.4 MAC and PHY used by ZigBee. TI's CC2430 provides a system-on-chip (SoC) ZigBee transceiver.

ZigBee Alliance [20]. This web site provides the best source of current information about the ZigBee standard developments and technical specifications.

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