Cellular router includes 802.11b/g/n Wi-Fi connectivity technology

B&B Electronics announces that it has added 802.11b/g/n Wi-Fi connectivity technology to its rugged SPECTRE 3G cellular router. Called the SPECTRE3G-W, this new wireless cellular router is a single box solution that provides local machine-to-machine (M2M) network connectivity via its built-in Wi-Fi Hotspot, Ethernet 10/100 and I/O ports, and connects to the Internet via CDMA and HSPA+ cellular telephone networks. SPECTRE3G-W can serve as a Wi-Fi Access Point (AP) or “Hotspot,” as well as scan for and tie into existing short-distance wireless networks. The single-box solution eliminates the need for multiple devices to achieve a Wi-Fi Hotspot.

Uses for the Wi-Fi Hotspot capabilities include long-distance transportation, where bus and railway companies can provide en-route Internet access to Wi-Fi-enabled device users (laptops, tablets, cellphones). School buses can provide en-route Internet access as well. In industrial situations, where the router may be located in either hazardous or hard-to-reach places, technicians can connect to it via Wi-Fi, instead of physically connecting to the Ethernet port. SPECTRE3G-W can connect to Wi-Fi-enabled devices like sensors, and it can provide long-range Ethernet connections to any device that is within range of the cellular network.

Built for plug-and-play simplicity with extensive remote management, deployment and customization options, users manage the router through an easy-to-use Web interface or a powerful scripting engine. Firmware-Over-The-Air (FOTA) technology enables users to set the router to automatically update its configuration and firmware from the operator’s central server, allowing for simultaneous mass reconfiguration of every router on the network. A rugged metal casing with a wide operating range (-30 to 60 degrees C) and DIN-Rail mounts make the SPECTRE3G-W ideal for M2M connectivity in harsh or remote environments.

This is B&B’s first product to leverage technology from two recent acquisitions; Wi-Fi from Quatech (October 2011) and cellular networking routers from Conel (March 2012). The SPECTRE 3G with Wi-Fi is the second of several cellular router offerings B&B plans for the North American market.

The SPECTRE3G-W is designed for both enterprise and industrial M2M communications systems including: enterprise networking, transportation providers (railway, bus), intelligent transportation systems/ITS (traffic, toll, parking, digital signage), security/camera-monitoring, transaction management (ATMs, point-of-sale, kiosks, lottery), remote monitoring, industrial automation, energy management (oil/gas/water distribution networks and grids), and geological, environmental and weather-monitoring systems.

There are two SPECTRE3G-W models. The RT3G-300-W includes one 10/100 Ethernet port, one USB host port, one binary input/output (I/O) port, Wi-Fi and dual SIM card holders. (The second SIM card holder provides network redundancy, as the router can automatically switch between GSM service providers or plans, if one connection fails.) The RT3G-310-W includes an additional Ethernet port.

The web interface is password-protected and the SPECTRE3G-W supports 802.11b/g/n standards, 64/128 WEP, TKIP, and AES authentication, as well as WPA-PSK, WPA2-PSK and shared security. VPN tunneling provides for secure communications across the cellular network. The IP address, subnet mask, gateway address and SSID are easily configurable.

The R-SeeNet remote management platform allows users to configure and manage multiple routers, eliminating the need to make policy changes a router at a time or for on-site technician visits. Users can also monitor the status and activities of routers, including amount of data transferred, signal strength, response time, or number of PPP connections or channels connected.

The router supports VPN protocols including IPSec, OpenVPN and GRE Tunneling. It also supports DHCP, NAT, NAT-T, SMTP, DynDNS, NTP, VRRP, HTTPS, SSH, OSPF, RIP, BGP control by SMS and more.
Both models carry a 5-year warranty and are available from all of the company's North American distributors: http://www.bb-elec.com/How-to-Buy/Find-a-Distributor.aspx [1].

For more information: http://www.bb-elec.com/Products/Wireless-Cellular/Cellular-Routers/Spectre-3G-Cellular-Wi-Fi-Routers.aspx [2]

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