WiFi Modules with SMA Connector

The iWEM-1001 series from Lemos Internnational is an ultra low power consumption WiFi module with lightening fast boot-up/connection feature designed for industrial application. It is the key product to complete last mile M2M wireless connectivity.

The modules are fully integrated WiFi solutions in a compact IC-style SMT packaging. The module allows engineers to make any product having WiFi connectivity without RF experience and without months of hardware as well as software development time. The only hardware requirement for the host system to add WiFi connectivity is a simple 3-wire UART interface that is the common interface most micro-controllers have.

The iWEM-1001 has been designed from inception to maximize battery life and achieves ultra low-power consumption. The power conservation architecture operates in two modes: an active mode and a sleep mode. The active mode consumes 30-200mA depending on TX data density. The sleep mode consumes less 0.5mA. The user can maximize the battery life by keeping the iWEM-1000 in sleep mode most of time and only waking it up when needed.

Additional features include:

•Wi-Fi, 802.11b/g PHY/MAC at up to 54 Mbps

•Interface to your favorite microcontroller using only 3 wires

•Flexible antenna choice: Embedded Chip, UFL and SMA

•General sensor interface for monitoring push buttons, temperature, motion, and acceleration

•11 GPIOs (GPIO 2-9, and 12-14) for general use

•Easy battery operation. On-chip power regulators and power management circuits

•Pre-installed Atech WiFi Thin-Client application firmware provides complete networking functionality

•Infrastructure and Ad-Hoc mode support

•Open, WEP-40, WEP-128, WPA-PSK, WPA2-PSK Security TCP/IP, DHCP, UDP, DNS, ARP, ICMP

•Simple ASCii Command set to configure the module

•Over the air TFTP firmware upgrade

•Sleep mode support.

For additional product information visit: www.lemosint.com; email: sales#lemosint.com; 203-254-1531.

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