



iWiFi

Serial-to-Wireless LAN Device Server

General Description:

iWiFi™ is a serial-to-Wireless LAN device server that enables installed serial devices to connect via a serial port to the Internet over an 802.11b Wireless LAN.

iWiFi eliminates the need for any hardware modification to the host device. Simply connect a serial cable from iWiFi's female DB-9 connector to your device. iWiFi is ready to connect to the Wireless LAN via its onboard 802.11b compact flash adapter card with minimal configuration.

The Internet engine inside iWiFi is Connect One's remotely updateable iChip LAN™ Internet Controller™, which stores the Internet protocol stack in flash memory.

Connect One's AT+i™ protocol eliminates the need for Internet programming and minimizes changes to the host application. Connect One's SerialNET™ operating mode completely eliminates the need for changes to the host application, as it is a true plug-and-play operating mode.

iWiFi is powered by an external 9-volt power supply. A future hardware release will enable iWiFi to be powered through pin 9 of the DB-9 connector to the host device..

Application Program

Interface:

- Connect One's AT+i™ protocol
- SerialNET mode for transparent serial data-to-Internet bridging.

Internet Protocols:

- IP, ARP, ICMP, UDP, TCP, PING, DHCP, DNS, MIME, SMTP, POP3, HTTP, WAP, FTP, and TELNET.
- Includes Web and WAP server and embedded 64KB storage area for iChip and application Web sites.

Hardware Description:

- Size: 94 x 63 x 28 mm (3.7 x 2.5 x 1.1").
- Weight: 200 g (7.1 oz.).
- Operating Humidity: 90% maximum (non-condensing).
- Operating Temperature Range: 5° to 50° C (41° to 122° F).
- Power Supply Input: 5-24 VDC. 9V power supplied included unless specified. Power from host device optionally available.
- Power Consumption: 0.7W @ 9VDC.
- LEDs:
 - LNK – Link status
 - ACT – LAN activity
 - SNET – SerialNET mode activity
 - PWR – Power
- Connectors: female DB-9, 2.1 mm power jack.
- Host Interface: RS-232 (RS-422/485 optionally available).
- Includes 802.11b CF adapter card (also available without CF adapter).
- Plastic enclosure.

Performance Specifications:

- Host Data Rate: 2,400 bps to 230 kbps
- Data Format: Asynchronous character, serial, binary, 8 data bits (optional 7 data bits in SerialNET mode), no parity, 1 stop bit.
- Standard Operating Mode: EIA RS-232 full duplex.
- Flow Control: hardware (DTR, RTS, CTS, DSR) and software flow control (Connect One's Wait/Continue method).

Warranty:

- Warranty: 1 year limited warranty.

Approvals: CE, UL, FCC pending

Configuration:

iWiFi firmware and device configuration parameters can be remotely updated over the Internet. iWiFi can be easily configured via Connect One's iChipConfig utility. This multi-function Windows utility enables quick and complete configuration of the iChip via a local serial connection or via the Web. The iChipConfig utility also enables packaging of the application's Web site.

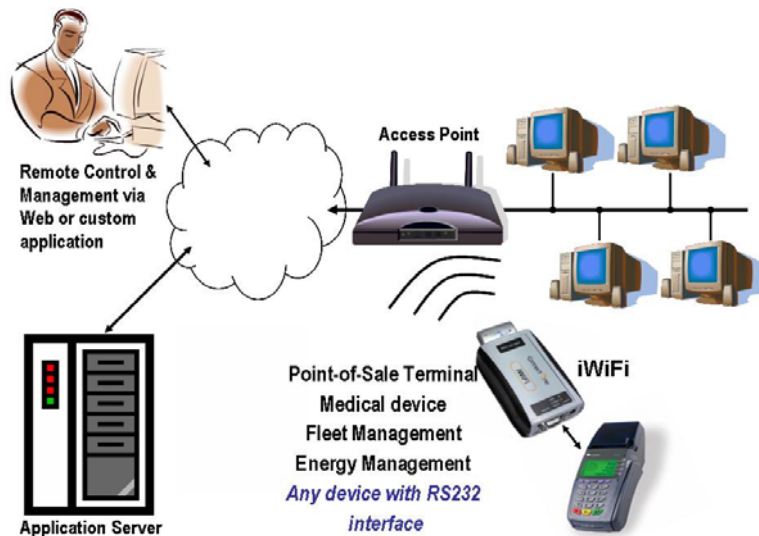


Top View



DB-9 Connector, Power Jack, Mode Select, SerialNET and Power LEDs

Typical Application:



iW100 Ordering Information:

iW100b-0: 802.11b iWiFi, including CF adapter, without power supply
 iW100b-0-110: 802.11b iWiFi, including CF adapter, with 110-volt power supply
 iW100b-0-220: 802.11b iWiFi, including CF adapter, with 220-volt power supply
 iW100-0: 802.11b iWiFi, without CF adapter, without power supply
 iW100-0-110: 802.11b iWiFi, without CF adapter, with 110-volt power supply
 iW100-0-220: 802.11b iWiFi, without CF adapter, with 220-volt power supply

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