Connect One™
Connecting your Device to the Internet™

Product Brief

Publication Number 17-9100-06

iConnector
iC101

Wireless Internet Adapter

General Description:

iC101 iConnector™ is a small adapter that enables installed devices to connect to the Internet via wireless modems and data-enabled phones that use AMPS, CDMA, CDMA2000 1xRTT, CDPD, GPRS, GSM, iDEN, and TDMA networks.

iConnector provides "Instant Internet™" connectivity for installed legacy devices by eliminating the need for any hardware modification to the host device. The Internet engine inside iConnector is Connect One's firmware-based, remotely updateable iChip™ Internet Controller™, which stores the Internet protocol stack in flash memory. Simply install iConnector between your device and a wireless modem or data-enabled phone to Internet-enable your host device.

Connect One's AT+i™ protocol eliminates the need for Internet programming and minimizes changes to the host application. Connect One's SerialNET™ mode completely eliminates the need for changes to the host application, as it is a direct serial-to-Internet port server.

iC101 plugs into the host device's serial port via a male or female DB-9 connector. It connects to the modem/phone via a male DB-9 connector. iConnector may be powered through pin 9 of the DB-9 connector to the host device, or via an external power source.

Application Program Interface:

- Connect One's AT+i™ protocol
- Hayes AT command set
- Connect One SerialNET mode for transparent serial data-to-Internet protocol conversion.

Internet Protocols:

- PPP, IP, UDP, TCP, SMTP, POP3, MIME, HTTP, FTP, TELNET, DNS
- Includes Web server / 32KB Web site.
- Includes WAP server for device management via a WAP browser.

Wireless Modem/ Data-Enabled Phone Support:

- Works with wireless modems/data-enabled phones that support AT commands via an RS-232 interface.

Hardware Description:

- Size: 42.67 x 69.19 x 20.17 mm (1.68 x 2.724 x 0.794 in.)
- Weight: 37 g (1.3 oz.)
- Operating Humidity: 90% maximum (non-condensing)
- Commercial Temperature Range: 0° to 70° C (32° to 158° F)
- Industrial Temperature Range: -40° to 85°C (-40° to 185° F)
- Power Supply Input: 5-24 VDC
- Power Consumption: 0.4 W
- LEDs: TX, RX, Carrier Detect, Ring, Power
- Connectors: 2 DB-9, 1.3 mm power jack
- Host Interface: RS-232

Performance Specifications:

- Host Data Rate: up to 115,000 bps
- Data Format: Asynchronous, character, serial, binary, 8 data bits, no parity, 1 stop bit.
- Standard Operating Mode: Full duplex; auto redial, tone dialing.
- Flow Control: hardware (DTR, RTS, CTS, DCD) and software flow control.

Connect One™

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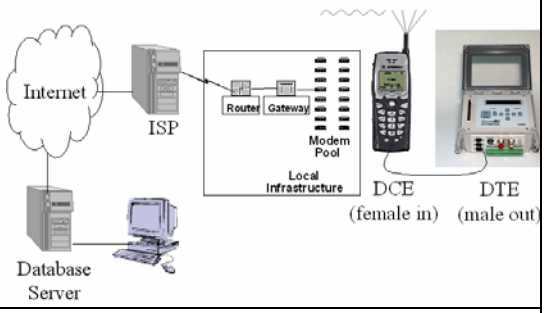
Typical Applications:

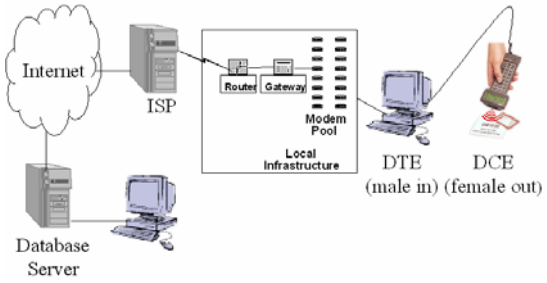
Before Internet-Enabling

Data Logger-to-Modem Connection



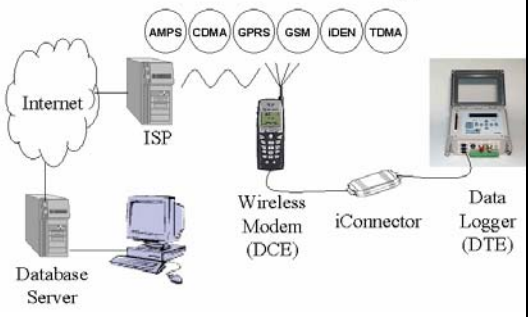
Before Internet-Enabling

Handheld Terminal-to-PC Connection



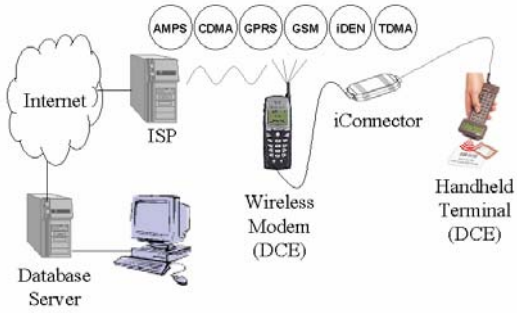
After Internet-Enabling

iConnector Female-Male Configuration



After Internet-Enabling

iConnector Male-Male Configuration



iC101 Ordering Information:

iC101-MM-C-0
iC101-MM-C-0-110/220
iC101-MM-C-1
iC101-MM-I-0
iC101-MM-I-0-110/220
iC101-MM-I-1
iC101-FM-C-0
iC101-FM-C-0-110/220
iC101-FM-C-1
iC101-FM-I-0
iC101-FM-I-0-110/220
iC101-FM-I-1

Legend:

iC101-ww-x-y-z, where:
ww = MM (male in/male out connectors)
ww = FM (female in/male out connectors)

x = C for commercial temperature range
x = I for industrial temperature range

y = 0 when powered by DC jack
y = 1 when powered by pin 9 on DB-9 connector*

z = 110 or 220 volt power supply (please specify)

**Note: The Ring Indicator signal is not available when using pin 9 on the DB-9 connector for power.*

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