Product Brief

iConnectorLE
iC100

Low-Cost Wireless Internet Adapter

General Description:

iC100 iConnectorLE™ is a low-cost version of Connect One's iConnector™. It is a small adapter that enables installed devices to easily and cost-efficiently connect to the Internet via cellular modems and data-enabled cellular phones that use CDMA, CDMA2000 1xRTT, GPRS, GSM and TDMA networks.

iConnectorLE provides "Instant Internet"™ connectivity for installed legacy devices by eliminating the need for any hardware modification to the host device. The Internet engine inside iConnectorLE is Connect One's firmware-based iChip™ CO110PC Internet Controller™, which stores the Internet protocol stack in updateable flash memory. Simply install iConnectorLE between your device and a cellular modem or data-enabled phone in order 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. The optionally available plug-and-play SerialNET™ mode of operation completely eliminates the need for changes to the host application, as it is a direct serial-to-Internet port server.

iConnectorLE plugs into the host device's serial port via a female DB-9 connector or the evaluation extension board. It connects to the modem/phone via a male DB-9 connector. iConnectorLE is powered through pin 9 of the DB-9 connector to the host device, or via an external power source applied to the evaluation extension board.

Application Program Interface:

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

Wireless Modem/ Data-Enabled Phone Support:

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

Internet Protocols:

- Standard protocols: PPP, IP, UDP, TCP, HTTP client, and DNS
- Optional additional protocols: SMTP send and FTP send/receive clients (specify firmware version ESFT)
- Optional SerialNET mode: specify firmware version SNET
- Includes 10 simultaneous TCP or UDP active sockets
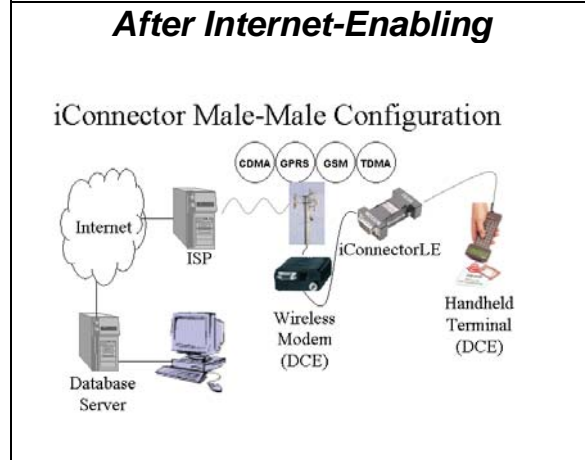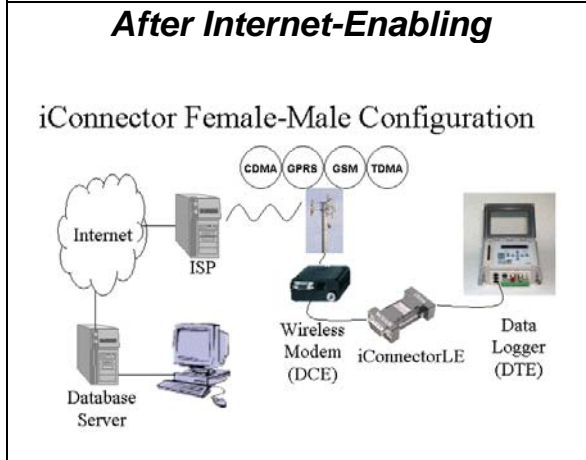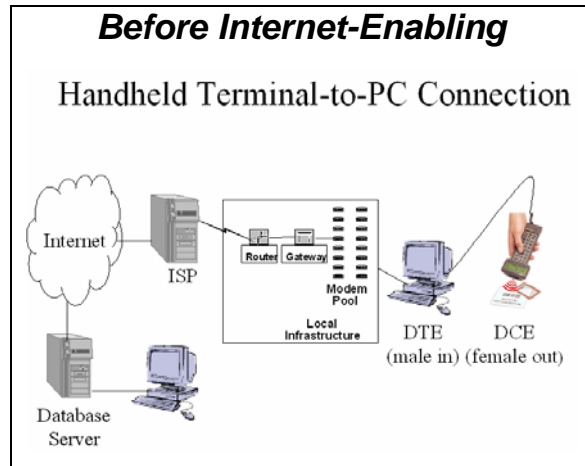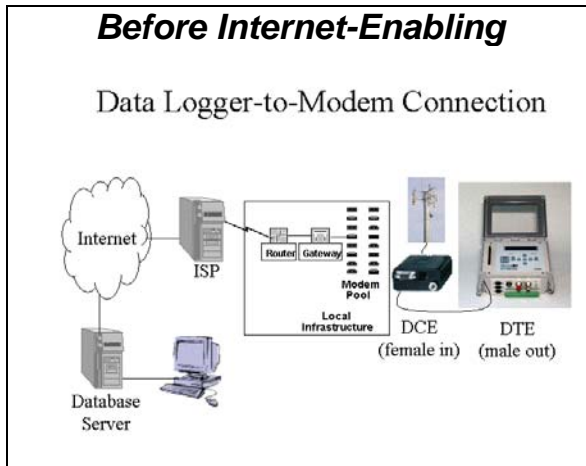- Includes two listening sockets
- Includes RAS server

Hardware Description:

- Size: 53 x 33 x 17 mm (2.1 x 1.3 x 0.67 in.) shell only
- Weight: 30g (1 oz.)
- Operating Humidity: 90% maximum (non-condensing)
- Operating temperature: better than 0° to 70°C (32° to 158° F)
- Power Supply Input: 5-12 VDC
- Current Consumption: 75mA
- Connectors: 2 DB-9 Male/Female
- Host Interface: RS-232, Power and TTL Input
- Modem Interface: RS-232

Performance Specifications:

- Host Data Rate: up to 230 kbps.
- Serial Data Format (AT+i mode): Asynchronous character; binary; 8 data bits; no parity; 1 stop bit.
- Serial Data Format (SerialNET mode): Asynchronous character; binary; 7 or 8 data bits; odd, even or 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.

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

Ordering Information:
iConnectorLE: iC100-FM-I-1
Evaluation Extension Board: iC-EVB-101-110/220

Optional Firmware Versions:
- ESFT: Email send and FTP send/receive clients
- SNET: SerialNET mode

Legend:
iC100-ww-x-y where:
   ww = FM (female in/male out connectors)

   x = I for extended temperature range

   y = 1 when powered by pin 9 on DB-9 connector

iC-EVB-101-x where:
   x = 110 or 220 volt power supply (please specify)

iChip, Internet Controller, AT+i, iConnector, iConnectorLE, Instant Internet, SerialNET and Connect One are trademarks of Connect One Ltd.

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