Connect One™

iLAN-100
Serial-to-Ethernet Device Server

General Description:

iLAN-100™ is a serial-to-Ethernet device server that enables installed serial devices to connect via a serial port to the Internet over a 10/100BaseT Ethernet LAN.

iLAN-100 eliminates the need for any hardware modification to the host device. Simply connect a serial cable from iLAN-100's female DB-9 connector to your device, and an Ethernet cable from your local area network to iLAN-100's RJ-45 connector.

The Internet engine inside iLAN-100 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.

iLAN-100 is powered by an external 9-volt power supply. iLAN-100 may be powered optionally 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 routing.

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 32KB 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: 180 g (6.43 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, RJ-45, 2.1 mm power jack.
- Host Interface: RS-232 (RS-422/485 optionally available).
- 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

Connect One™

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Configuration:

iLAN-100 firmware and device configuration parameters can be remotely updated over the Internet. iLAN-100 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.
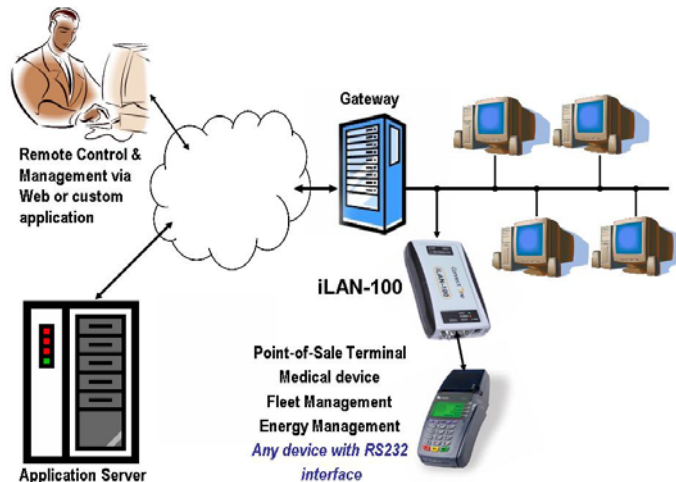
Top View

**RJ-45 Connector
Link and Activity LEDs**

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

Typical Application:

Remote Control & Management via Web or custom application

Gateway

iLAN-100

Point-of-Sale Terminal
Medical device
Fleet Management
Energy Management
Any device with RS232 interface

Application Server

IL100 Ordering Information:

iL100-0: iLAN-100 without power supply
iL100-0-110: iLAN-100 with 110-volt power supply
iL100-0-220: iLAN-100 with 220-volt power supply

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