The award-winning NEWPORT® iServer is the simplest, easiest, most economical way to connect serial devices to an Ethernet network and the Internet.

When you type its name in a Web browser, it serves Web pages that let you quickly and easily configure the device for your specific application without any special software.

Getting started with the iServer is very simple and easy because it can take a dynamically assigned IP address from a DHCP server on your network. This DHCP client capability is a valuable and unique feature of the NEWPORT iServer that makes it extremely easy and simple to start using this device on almost any Ethernet network.

You can easily assign a static IP address to the iServer instead of a dynamic one, if necessary. The IP address can be assigned locally through its serial connection, as well as remotely over an Ethernet network via Telnet or a web browser, using its factory default IP address.

The NEWPORT iServer connects to an Ethernet Network with a standard RJ45 connector. Serial devices connect to screw terminals on removable connectors. You can select RS-232, or RS-485 (and RS-422) Serial Communications from the configuration Web page.

The iServer can be used to make an existing Serial device a "node" on an Ethernet network with a unique IP address that's accessible from any authorized computer on the LAN, WAN, or Internet.

The iServer can instead be used to create a virtual tunnel on an Ethernet/Internet network simulating a local point-to-point serial connection between a serial device and a PC. This replaces dedicated point-to-point wiring limited to 50 feet on an RS-232 connection. The NEWPORT iServer packages the Serial data in standard TCP/IP packets that can travel anywhere on the Ethernet LAN or over the Internet.

The NEWPORT iServer is compatible with almost any device with a Serial interface such as: time clocks, security alarms, card-key access controllers, telecommunications equipment, vending machines, bar code readers, electric power meters, UPS systems, test & measurement instrumentation, PLC's, serial printers, cash registers, and many more.

You do not need to rewrite the firmware for your serial devices to work with the iServer, and in some cases might not need to change your application software. Your serial devices will function over the Ethernet network or the Internet as if they were connected directly to a PC. The COM port on the iServer simulates a local COM port on the PC.

The NEWPORT iServer is compatible with wireless Ethernet. In settings where wires of any kind are not possible, the EIS-2B can be connected to a Wireless Ethernet Access Point enabling simple, economical wireless connectivity of Serial Devices.

With the NEWPORT iServer: A manufacturing manager can monitor PLC's over the LAN from a desk anywhere in the facility, or from anywhere on the Internet with the proper passwords and authorization. A technician can use a handheld computer with Wireless Ethernet connectivity to change settings on a process controller. The NEWPORT iServer model # EIS-2B comes complete with full documentation, and firmware.

For OEM's, NEWPORT offers custom labeling as well as customized application specific firmware and design engineering. NEWPORT also offers printed circuit board-level products (powered by 5 Vdc) that OEM's can incorporate in their product to add embedded Ethernet/Internet connectivity to products with existing serial interface. (Contact the NEWPORT OEM Engineering Group.)

For IT and commercial applications, NEWPORT offers other iServer Device Servers in steel enclosures for rack mounting. The EIS-W models feature a DB-9 connector and come complete with an ac power adapter.
NEWPORT iServer products are designed and manufactured in Santa Ana, California. NEWPORT provides generous technical support.

**Specifications**

**Serial Interface**
- **Interface**: Software Selectable RS-232, RS-422 or RS-485 (2 wire)
- **Connector**: 8 screw terminal plugs
- **Data Rates**: 300 to 115.2 Kbps
- **Characters**: 7 or 8 data bits
- **Parity**: odd, even, or none
- **Stop Bits**: 1 or 2
- **Flow Control**: Hardware (RTS/CTS) and Software (Xon/Xoff).
- **Digital I/O's**: 4 digital input/output lines

**Network Interface**
- **Interface**: Ethernet 10Base-T
- **Connector**: RJ45
- **Protocols**: TCP/IP, UDP/IP, ARP, ICMP, DHCP, DNS, HTTP, Telnet, and MODBUS/TCP
- **Indicators (LED's)**: Network Activity, Network Link, and Serial Transmit/Receive

**Processor**
- **CPU**: Enhanced 8051, 22 MHz
- **Memory**: 512 Kbyte Flash, 16 Kbyte SRAM

**Management**
- Embedded Web server, Telnet login, Serial login

**Embedded Web Server**
- Serves dynamic Web pages and Java applets (256 Kbyte capacity)

**Power Input - DIN Rail Enclosure**
- (DC Power supply sold separately)
- **Input**: 10-32 Vdc
- **Consumption**: 2 W max.

**Environmental**
- **Operating Temperature**: 0 to 70° (32 to 158°F)
- **Storage Temperature**: -40 to 125°C (-40 to 257°F)

**Packaging**

**DIN Rail Enclosure**
- **Material**: Polycarbonate case with DIN Rail mount
- **Dimensions**: 90.2H x 25.1W x 115.0D mm (3.54 x .99 x 4.53 in)
- **Weight**: 113 g (0.25 lbs.)

**Agency Approvals**
- FCC-B, C/UL, CE

**Software**
- Firmware upgradeable (for iServer firmware upgrade package (EIS-FW-CA and EIS-FW-CD) contact NEWPORT oem@newportUS.com or 714-540-4914) COM Port redirector (iPORT) Configuration software utility (iCONNECT)
- Compatible with Windows 9x / ME / NT / 2000 / XP software and related utilities

**Ordering Information**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>EIS-2B</td>
<td>iServer Industrial MicroServer™ with screw terminal serial port</td>
<td>195</td>
</tr>
<tr>
<td>iDRN-PS-1000</td>
<td>Power Supply (switching), 95 to 240 Vac input, 24 Vdc output @ 850mA (power up to 7 units)</td>
<td>150</td>
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* Volume discounts are available