Quick Start Guide

ESERV-1xT Serial Servers



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Check for All Required Hardware

- □ ESERV-1xT module
- This Quick Start Guide
- CD with Software Manager and manuals
- Network cable (not included)
- □ Serial cable(s) (not included)
- 10 to 58V DC (4W) Power Supply (not included)

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Install the Hardware

- □ Connect a 10 to 58 VDC power supply
- Connect the network cable from the serial server to a network drop using a standard network cable. Use a straight-through Ethernet Cable on copper ports.

Connect the serial device(s):

- RS-232 with DB9: straight-through for DCE device, null modem for DTE device
- RS-232/422/485 with terminal blocks: see Appendix D for pinouts





LED STATUS Ready Blinks if system is operating correctly Port 1 On indicates serial port open, blinks when data present on serial port Port 2 Same as Port 1 (Present on 2 port units only) Link On indicates Ethermet operating in 100BaseTX, blinks when data present on Ethermet link

Mode Switch

Hold in Mode switch for	Result	
0 to 2 seconds	Initiates a Hardware Reset	
2 to 10 seconds	Enters Console Mode	
More than 10 seconds	Resets to Factory Defaults	

Install Management Software

- □ Insert the included CD and it should autostart
- □ Follow the prompts to install the Ethernet Serial Server Manager software.

Note: Be sure you have administrative rights & disable firewalls in Windows XP and Vista.

Setup Management Software

- □ Open Ethernet Serial Server Manager: click Start→Programs→N-TRON→ Ethernet Serial Server Manager
- The Discovery page opens



- D To configure via the network, select Network.
- If you know the IP address, select *The device is at this address*, and type in the address. If not, select *I don't know the IP address of the device*.
 Click Connect.

OR...Setup the Web Interface

- Open a browser and type the IP address of the serial server in the Address Bar.
- □ When the serial server is found, the Configuration window appears.

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Login

- Click Login. (Password is blank from factory)
- □ The General page appears.

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N-7	RON	
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Setup the Network

- The serial server is set at the factory to receive an IP assignment from a DHCP Server. If a DHCP server is not available on your network, it will default to <u>169.254.102.39</u>.
- If this address does not work with your PC, change your network settings to:
 - IP Address = 169.254.102.1
 - Subnet Mask = 255.255.255.0
 - o Default Gateway = 169.254.102.100
- □ If you need to use different settings, refer to the Users Manual for instructions.

Setup the Serial Port Parameters

- Click Port 1 Serial to open the Serial Port Parameters page. Select the type of serial connection between the serial server and the serial device. (RS-232, RS-422, RS-485 2-wire, or RS-485 4-wire)
- Select the Baud Rate, Data Bits, Stop Bits, Parity and Flow Control needed to communicate with the serial device.
- If your serial server is 2 port, select the next port in the Description box, then repeat the previous steps.
- Click Next.



Setup the Port Network Parameters

- Click **Port 1** Network to open the Port Network Parameters page.
- □ Select the type of network protocol you want to use: TCP, UDP, VCOM or Paired Mode.
- If you select TCP, select whether the serial server will operate as a Client or Server, then configure the required IP address, port numbers and other related parameters.
- If you select UDP, configure the IP addresses, ports and other related parameters for the devices you want to receive from and send to.
- if you want the serial server to act as a virtual communications port for a computer, select VCOM. This allows your computer to connect to a serial device on the network as if it were connected to a physical COM port.
- If you want the serial server to operate in Paired mode with another serial server, select Paired, then configure it as a client or server and set up the IP address, port numbers and other related parameters (similar to setting up TCP).

Setup Advanced Parameters

- If you want to set up Advanced parameters, click Advanced on the Port Network Parameters page.
- If necessary for your application, select I want to control when connections are forced closed, then set up the Network Watchdog and Serial Watchdog as required.
- If necessary for your application, select I want to control data packets are sent over the network, then set up the Character Count, Forced Transmit, Intercharacter Timeout, Delimiters and Delimiter Removal as required.
- Click Next.

Save and Logout

- □ If you have completed the configuration, click Save to save the configuration to the serial server.
- To Logout, click the Logout button.

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To Test and Verify Operation

- Set up serial server as a TCP Server on serial port 1.
- Set serial port to RS-232 on serial port 1.
- □ Set to 9600 8-N-1 on serial port 1.
- Loopback serial port 1 by connecting TD to RD.
- Open a DOS window and type "telnet x.x.x. yyyy" where x.x.x is the IP address of the serial server and yyyy is the port number of the serial port.
- Type characters on the keyboard. The characters should appear in the window. If not, double check your settings.