

### Connecting a single computer to the XAP Net LAN port

#### Introduction

This document explains how to connect a single computer to the XAP Net LAN port. To complete this procedure, you will need a 9-pin straight-through serial cable, a cross-over Ethernet cable, a computer with a COM port and network interface card, and G-Ware 5.0 installed. Before you can connect to the LAN port, you will need to connect to your XAP Net serially and assign a static IP address. You will then need to configure the IP settings for your computer's network interface card.

# **Note**: You may also be able to connect with a USB port and a USB to serial adapter. See Technical Note XAP\_GWARE 122.

### Assign a static IP address

1. Connect the serial cable from the computer COM Port to XAP Net RS-232 port labeled CONTROL.



- 2. Start G-Ware version 5.0 or later and select **New Site** from the File menu.
- 3. When the Site Properties window opens, click the **Comm** tab and verify the default settings. Please note that these settings are for your computer, not the XAP Net.
  - Make sure Use Local Port is selected
  - Select the COM port your computer is using
  - Verify Rate is 38400 and Flow is set to Hardware

The computer COM port Rate and Flow settings must match the XAP Net Control port settings to connect successfully.

- 4. Click OK.
- 5. Click the **Connect** button on the G-Ware toolbar. The XAP Net icon will appear in the site pane and the Site Data and Unit Data status lights will turn green. The status lights are located in the lower left corner of the G-Ware window.

Mode: Configuration	Site Data:	 Unit Data:	 Las
Status lights			



G-Ware, Site Properties window



XAP Net icon

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- 6. Select Unit Properties from the Unit menu to open the XAP Net Unit Properties window.
- 7. Click the **Comm** tab. Clear the **Use DHCP** checkbox.
- 8. Enter the static IP address and Subnet address for your XAP Net. (You can get this information from your Network Administrator.)
- 9. Click **OK** to close the window.

KAPNet Properties	×
General Site Comm Misc.  IP Settings Network Name: JAPNet Use DHCP IP Address 0.0.0 Gateway 0.0.0 Use DNS DNS Address 0.0.0	IP Filters           IP Filter 1           IP Filter 2           1P Filter 3           1P Filter 3           1P Filter 4           0.0.0           1P Filter 4           0.0.0           Power 10           Power 10      <
	OK Cancel

ClearOne

You're Virtually Theres

XAP Net, Unit Properties window

### **Configure computer IP settings**

Note: The configuration shown is in Window XP. All Windows Operating Systems are similar.

- 1. Click Start, point to Settings and then click Control Panel. Double-click the Network Connections icon.
- 2. In the Network Connections window, double-click the Local Area Connection icon. This will open the Local Area Connection Status window.

	LAN or High-Speed Internet			
Network Connections	Local Area Connection Enabled Broadcom NetXtreme Gigabit E			

🕹 Local Area Connection Status	? ×	🚽 Local Area Connection Properties	Internet Protocol (TCP/IP) Properties
General Support		General Authentication Advanced	General
Connection Status:	Connected	Connect using: Broadcom NetXtreme Gigabit Ethernet for hp	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Duration: Speed: Signal Strength:	08:47:57 1.0 Gbps	This connection uses the following items:	Detain an IP address automatically     O Uge the following IP address:     IP address:     ID . 0 . 0 . 1
Activity Sent — 🔬 -	- Received	Pile and Printer Sharing for Microsoft Networks     Pile and Printer Scheduler     S    Packet Scheduler     S    Internet Protocol (TCP/IP)	Sybnet matic: 255.255.255.0 Default gateway:
Packets: 50,043	55,852	Install	Use the following DNS server addresses:     Preferred DNS server:
<u>Properties</u> <u>Disable</u>	<u><u>C</u>lose</u>	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Alternate DNS server:
Local Area Connection St	atus	✓ Show icon in notification area when connected	OK Cancel
		OK Cancel	

**Local Area Connection Properties** 

- 3. Click **Properties** to open the Local Area Connections Properties window.
- 4. Select Internet Protocol (TCP/IP) and click Properties to open the Internet Protocol Properties window.
- 5. Select Use the following IP address.

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6. Enter the **IP address** you want to use, making sure it is in the same Subnet as the IP address you assigned to the XAP Net. Click **OK**.

Note: You do not need to have a Default Gateway or DNS servers configured for a direct connection.

- 7. Connect the computer NIC to the XAP Net LAN port using your crossover Ethernet cable.
- 8. Start G-Ware and select **New Site** from the File menu to open the Site Properties window and click the **Comm** tab.
- 9. Select **Use Networking** and enter the XAP Net's IP Address. Leave the Port set to 23 and click **OK**.

**Note**: Port 23 is Telnet and is how G-Ware is configured to communicate.

10. Click the **Connect** button on the G-Ware toolbar. When the unit connects, a XAP Net icon appears in the Site pane. The Site Data and Unit Data status lights in the lower left corner of the G-Ware window will turn green.

Site Properties - New Site
General Site Comm Security
Use Local Port
Communications: COM1:
Riate: 38400 💌 Flow: Hardware 💌
Phone Number:
Init String: AT&FE0&C1&D1
Reset String: ATZ
Use Networking
IP Address: 10.0.0.2
Port: 23 Default (23)
OK Cancel

### To make a crossover Ethernet cable

An Ethernet crossover cable is an unshielded twisted pair Category 5 (UTP-CAT 5) network cable. The XAP Net has a 10/100Mbps NIC and can connect at either speed, depending on your LAN speed.

You can purchase the cable or build it yourself. The RJ-45 connectors will have all 8 wires connected but only 4 of them will be crossed over. Pins 1, 2, 3 and 6 are your transmit and receive pins. In a crossover cable the transmit and receive wires are crossed.

