



# Tenor<sup>®</sup> AX Quick Start

## NEW HARDWARE SUPPORT

This unit contains new hardware, which requires newer software. This software was installed on the unit prior to leaving the factory.

If you must downgrade the software in this unit, please visit <http://ae.quintum.com/support/rohs/> for a list of latest software patches that support this new hardware. Loading unsupported software will render this unit inoperable and will require physical access to this unit for recovery.

## Pre-Installation Check List

---

---

Before you install the hardware, ensure the following components are included in your shipment:

- Tenor AX unit
- 1 AC Power Cord
- 1 DB-9 RS-232 Serial Cable
- 50-Pin Telco Cables (double or single ended)

If a listed component is not included in your package, contact your customer service representative.

## Install Hardware

---

---

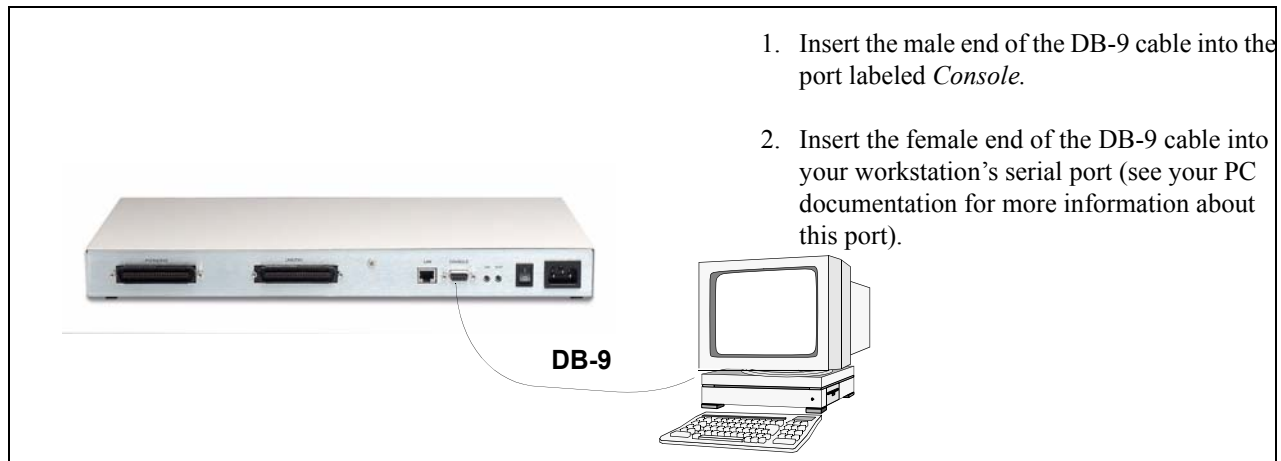
- Do not connect the unit in wet conditions, and keep away from dusty areas.
- The area must not exceed the temperature and humidity guidelines outlined in the *Tenor AX User guide*, available from the *User Documentation CD* or from [www.quintum.com/support](http://www.quintum.com/support).
- Avoid exposing the unit to excessive vibrations.

### STEP 1: Connect to Console Port (if required, see note)

**NOTE:** This step is not required for installation unless you would like to connect to the PC's COM port to configure a Static IP address.

**Connect to PC Console.** You will need to connect the *Tenor AX* to your workstation's serial port through the RS-232 connection. (This connection will be used when you assign an IP address to the unit.) For the instructions below, it is assumed you are connecting to a Windows PC.

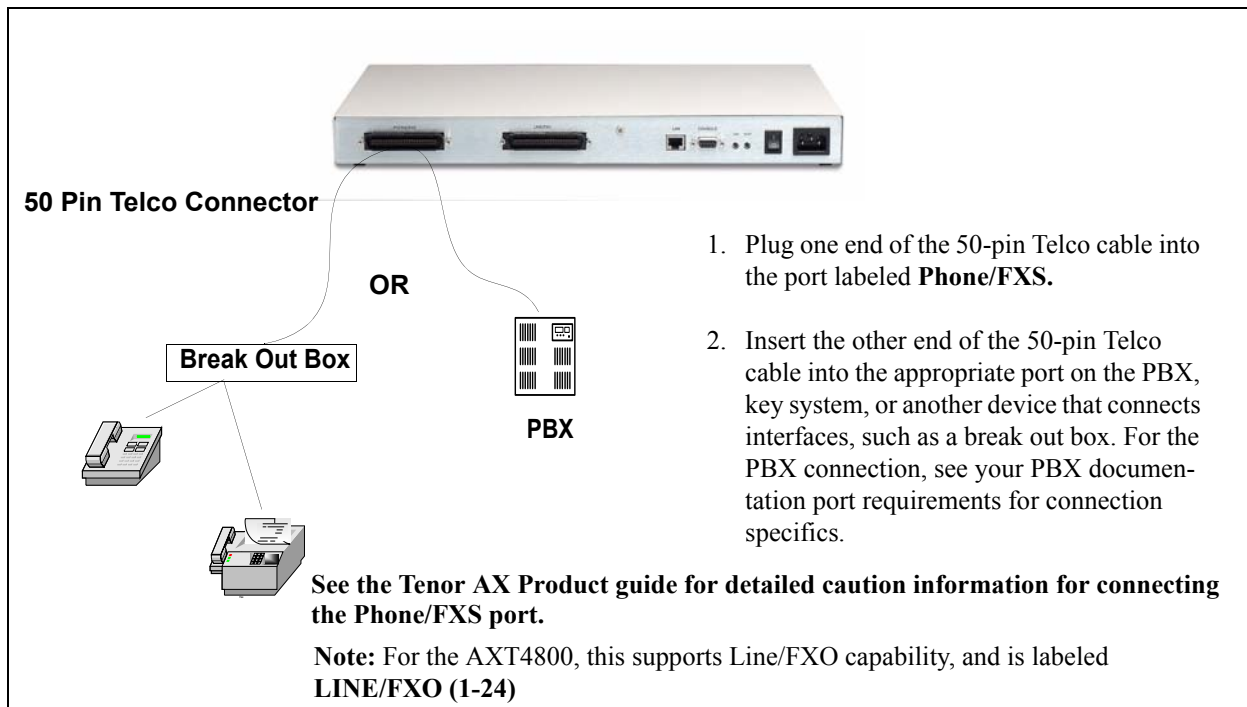
**Figure 1: Connect to PC Com Port**



**STEP 2: Connect to Phone/FXS Interface**

Depending on your order, you will have received either a double-ended or a single-ended 50-pin Telco cable. See the *Tenor AX User's Guide* (included on your CD ROM) for details for preparing the cables for connection (i.e., if you ordered a single-ended cable, you must prepare it for use with your application).

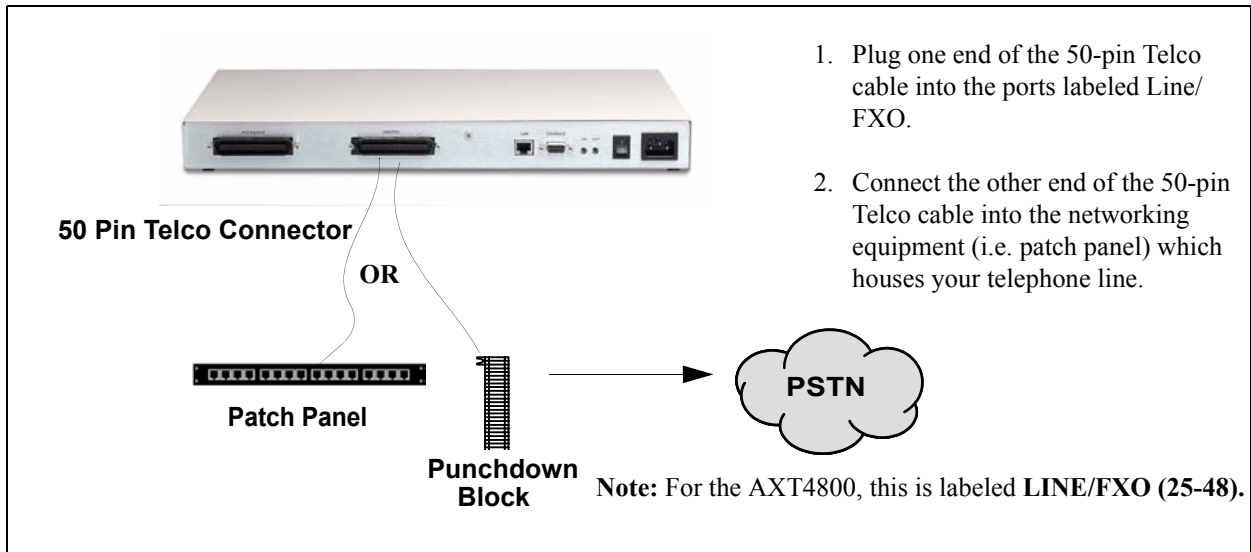
**Figure 2: Connect to Phone/FXS Interface**



### Step 3: Connect to Line/FXO Interface

You must first connect the analog phone lines to another piece of equipment that houses your telephone lines running to the PSTN, such as a patch panel, punch down block or wire wrap blocks. If you are unsure of the installation procedures, contact the network administrator or review the documentation you received with the PBX.

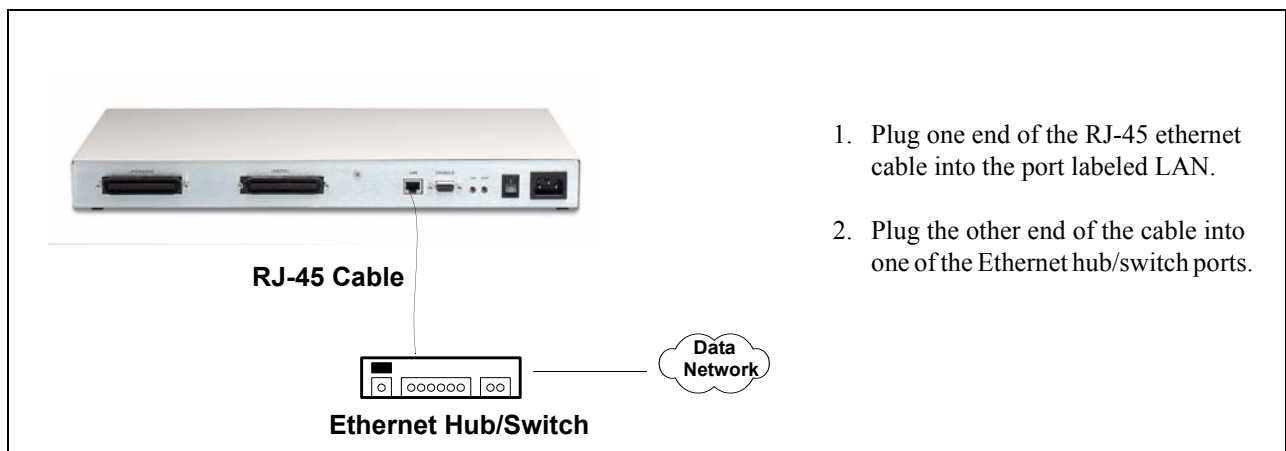
**Figure 3: Connect to Line/FXO Interface**



### Step 4: Connect to Ethernet Hub/Switch (LAN)

You can use these instructions for general connection purposes only. The Ethernet hub/switch manufacturer's documentation should provide specific instructions for connection to another device, such as the *Tenor AX*.

**Figure 4: Connect to Ethernet Hub/Switch**



## **Login without the PC's COM port/Obtain IP Address from Ethernet**

---

---

Factory defaults are the configuration elements set on the unit new from the factory. By default, when the Tenor is shipped from the factory, the ability to support DHCP (Dynamic Host Configuration Protocol) is enabled. That way, you can obtain an IP address upon bootup (see [Power Up the System](#)) and log into the system, without needing the COM port.

Through the LAN port on the *Tenor AX*, you can connect to a port on a firewall router that is capable of providing DHCP. You can then look at the active lease table of the firewall to get an IP address. If there is no DHCP service available when you turn the unit on, the Tenor gets an IP address of **169.254.xx.xx**, where **xx** and **yy** are the last two bytes of the serial number (in decimal), which allows it to be connected to a PC with an IP on the same subnet.

## **Log in through the PC's COM port (if required, see note)**

---

---

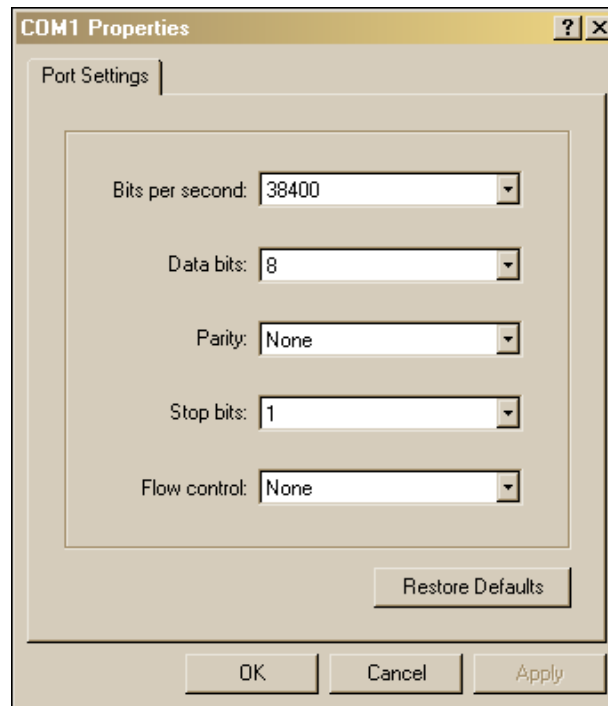
**NOTE:** This step is **unnecessary** if you do not wish to set a static IP address.

If you do have a COM port on your PC, when you log into a unit through the COM port at bootup, you have the option either to restore factory defaults (keep the IP obtained from the factory) or to configure the static IP address in the Tenor.

Connect through the COM port as follows:

1. Click on *Start > Programs > Accessories > Communications > HyperTerminal*. The *Connection Description* window is displayed.
2. Enter a connection name (i.e., name for the unit such as Tenor AX NJ). Click **OK**.
3. Choose the serial port on your PC from the Connect Using drop down list box (i.e., Direct to Com 1). Click **OK**. The *COM1 Properties* window is displayed. See Figure 1-5.

Figure 1-5 COM1 Properties Window



4. Select the following information:

- Bits per Second: **38400**
- Data Bits: **8**
- Parity: **None**
- Stop bits: **1**
- Flow control: **None**

5. Power up the unit via *Power Up the System*. A connection to the Tenor will establish. Information about the unit will scroll on the screen, followed by a message, "WITHIN 4 SECONDS, PRESS 'r' FOR FACTORY DEFAULTS or 'i' to SET STATIC IP".

6. Select 'i' - Set Static IP. The login prompt is displayed. The default user name/password is **admin**. The current IP address, Subnet Mask, and Default Gateway are displayed. A message asks you whether you would like to change these.

7. Type **y**. Follow the prompts to change the ethernet information. A message is displayed to tell you the Ethernet interface has been successfully configured and the unit will be restarted. (If you type **n**, the procedure will be cancelled).

You have completed login configuration.

## Power Up the System

---

---

1. Plug in the power cord to an AC outlet.
2. Locate the on/off switch on the back of the unit and click the switch to **On**.

## Configuration

---

---

You are able to configure the unit through the *Tenor Configuration Manager* or through the Command Line Interface (CLI). For more information, see the *Tenor Configuration Manager/Tenor Monitor User's Guide* and the *Command Line Interface Reference* guide. Both guides are available on the CD ROM you received with the unit or at <http://www.quintum.com/support>.