Axis Print Servers

High Performance Multiprotocol
Print Servers for Virtually All Networks
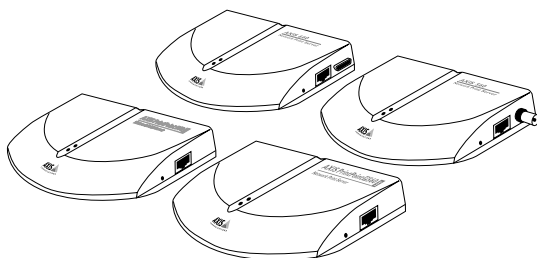
Quick
Installation
Guide

AXIS
COMMUNICATIONS

Quick Installation Guide

for

AXIS PrintPoint 1P 560/100, AXIS PrintPoint 560/100, AXIS 560 and AXIS 660

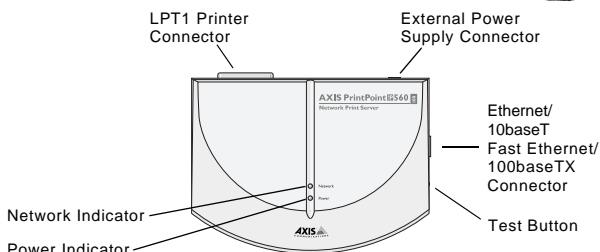Fast Ethernet, Ethernet and Token Ring
Print Servers for

NetWare • Windows • LANtastic
• OS/2 • UNIX • Macintosh
• Web Management
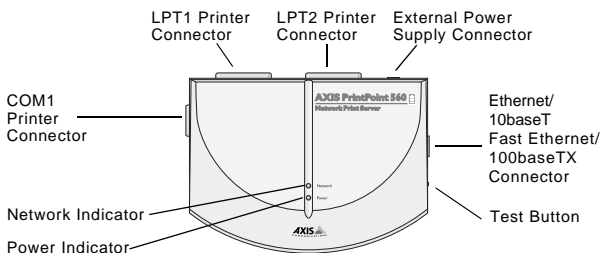
Quick Installation Guide

This guide covers the installation and <u>basic</u> setup procedures for the AXIS 560/660 - *see note right.* If you need more detailed instructions, please refer to the AXIS 560/660 User's Manual.
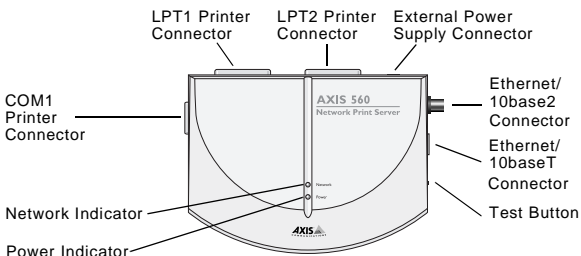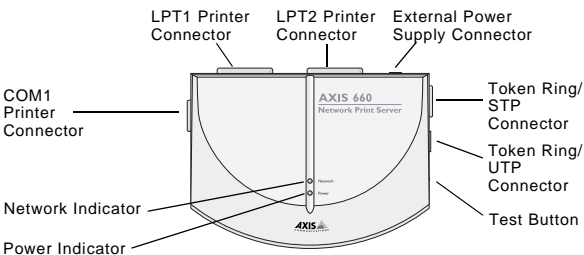
Physical Description

LPT1 Printer Connector
External Power Supply Connector
Ethernet/ 10baseT Fast Ethernet/ 100baseTX Connector
Test Button
Network Indicator
Power Indicator

AXIS PrintPoint 1P 560/100 Fast Ethernet Network Print Server

LPT1 Printer Connector
LPT2 Printer Connector
External Power Supply Connector
COM1 Printer Connector
Ethernet/ 10baseT Fast Ethernet/ 100baseTX Connector
Network Indicator
Power Indicator
Test Button

AXIS PrintPoint 560/100 Fast Ethernet Network Print Server

LPT1 Printer Connector
LPT2 Printer Connector
External Power Supply Connector
COM1 Printer Connector
Ethernet/ 10base2 Connector
Ethernet/ 10baseT Connector
Network Indicator
Power Indicator
Test Button

AXIS 560 Ethernet Network Print Server

LPT1 Printer Connector
LPT2 Printer Connector
External Power Supply Connector
COM1 Printer Connector
Token Ring/ STP Connector
Token Ring/ UTP Connector
Network Indicator
Power Indicator
Test Button

AXIS 660 Token Ring Network Print Server

Important note:

❏ Unless specifically stated, the AXIS PrintPoint 1P 560/100, AXIS PrintPoint 560/100, AXIS 560, and AXIS 660 are collectively referred to as the AXIS 560/660 within this document. Similarly, the AXIS PrintPoint 1P 560/100, AXIS PrintPoint 560/100 and AXIS 560 and are referred to as the AXIS 560.

Proceed with the following instructions, as appropriate for your type of network. Refer to all relevant sections if you intend to use the AXIS 560/660 in a multiprotocol environment.

Hardware Installation

1. Note the serial number found on the underside label of the AXIS 560/660. You need this number during the configuration.

2. Switch off the printer. Remove the AXIS 560/660 power supply.

3. Using a standard printer cable, connect the printer to one of the AXIS 560/660 printer ports LPT1, LPT2*, or COM1*.
   *Not supported on the AXIS PrintPoint 1P 560/100 model.

4. Connect the AXIS 560/660 to the network using an appropriate Fast Ethernet, Ethernet or Token Ring cable.
   Refer to the User Manual for specific cabling details.

5. *For the AXIS 660 only:* Slide the Ring Speed switch to 4 or 16, as appropriate for your Token Ring network.

6. Switch on the printer. Connect the AXIS 560/660 power supply.

7. Ensure that the Network Indicator is flashing. To check the connections, print a Test Page by depressing the Test Button.

NetWare

Follow the instructions detailed below, in order to install your AXIS 560/660. If you are using NDPS, you must install the HP Gateway, together with NDPS, on your NetWare file server. Otherwise you must install your AXIS 560/660 with the AXIS NetPilot™ Installation Wizard, supplied on the AXIS Utilities disk.

NetWare using NDPS (Public Access Printer)

1. Make sure that the HP Gateway is configured to automatically create a public access printer.

2. Connect the AXIS 560/660 to the NetWare network, if it is not already connected.

The HP Gateway will automatically create a public access printer, to which any user will have access.

NetWare using NDPS (Controlled Access Printer)

1. Make sure that the HP Gateway is **not** configured to automatically create a public access printer.

2. Connect the AXIS 560/660 to the NetWare network, if it is not already connected.

3. Use the NetWare Administrator to create an NDPS printer as an object in the directory.

As a directory object, access to the NDPS printer is controlled and it is no longer available as a public access printer.

NetWare not using NDPS

Install your AXIS 560/660 with the AXIS NetPilot™ Installation Wizard, supplied on the AXIS Utilities disk. Note that AXIS NetPilot™ software requires a Windows platform that uses NetWare or NetBIOS/NetBEUI.

1. Load the AXIS NetPilot™ software by following the instructions on the label of the AXIS Utilities disk. After loading the software, double click on the AXIS NetPilot™ icon.

2. The AXIS NetPilot™ will scan the network for Axis Network Print Servers that have not been installed and your AXIS 560/660 will subsequently feature as a New Axis Unit. Select your AXIS 560/660 from the Contents of 'New Axis Units' and then click the Install icon. The Installation Wizard will then guide you through the basic installation.

Should you require assistance with any of the operations click the Help icon and follow the instructions provided in the Help window.

To set up print queues:

1. Select the Network Print Server to be set up by clicking its icon.

2. Choose Network from the Setup menu.

3. A new window will open that allows you to create print queues, connect the AXIS 560/660 to print queues, and select either Print Server mode or Remote Printer mode of operation for each printer.

To set up the advanced operating parameters:

1. Select the Network Print Server to be set up by clicking its icon.

2. Choose Properties from the Setup menu.

3. A set of Property Pages are opened which allow you to set up the way in which Print Server mode and Remote Printer mode operate. You can also enable the frame types to be used.

The setup is now completed and you can close the AXIS NetPilot™. Open a Windows application, e.g. Microsoft Word and then select Print... to ensure that your printer appears as the default printer. Make a test printout to verify that the AXIS 560/660 is functioning correctly.

UNIX

Please note that you need UNIX root privileges, or administrator privileges on a Windows NT server for this configuration procedure.

1. Acquire an unused Internet Address from your Network Administrator and choose a unique name for your AXIS 560/660.

2. Add your AXIS 560/660 Internet address and host name to your system host table by appending the following line to the /etc/hosts file: **<internet address> <host name>**

   Example:
   ```
   192.36.253.96      salesdept
   ```

3. Update your alias name databases (YP/NIS).

4. Perform the following commands to download the Internet Address and verify correct Internet communication:

   AXIS 560 Ethernet Print Servers:
   ```
   arp -s <host name> <node address> temp
   ping <host name>
   ```
   Example for Ethernet:
   ```
   arp -s salesdept 00:40:8c:10:00:86 temp
   ping salesdept
   ```

   AXIS 660 Token Ring Print Server:
   ```
   arp -s 802.5 <host name> <node address> temp
   ping <host name>
   ```
   Example for Token Ring:
   ```
   arp -s 802.5 salesdept 00:02:31:48:00:61 temp
   ping salesdept
   ```

5. Log in to the AXIS 560/660 and upload the *axinstall* script:
   Example: (user entries appear in bold)
   ```
   > ftp salesdept
   Name (salesdept:thomas): root
   Password: pass      (not visible)
   ftp> get axinstall
   ftp> bye
   ```

6. Execute the script:
   sh axinstall
   The directions displayed on the screen will then guide you through the installation of LPD, FTP or PROS on your UNIX system.

The UNIX Configuration is now completed.

Notes:

❏ The Node Address is based upon the serial number of the AXIS 560/660 but may optionally be a Locally Administrated Address.

❏ You may alternatively use the RARP, BOOTP or DHCP commands to set the Internet Address. *Refer to the User's Manual for further details.*

Macintosh

There is no support for Apple TokenTalk in the AXIS 660.

Open the Chooser window by selecting Chooser in the Apple menu. Follow these steps to choose a printer:

1. Click on the LaserWriter (or LaserWriter 8.0) Icon.

2. If your network has more than one zone, click the name of the default zone.

3. Click the name of the printer you want. The default printer name is shown as: AXIS<nnnnnn>_<port>, where <nnnnnn> is the last six digits of the serial number, and <port> is LPT1, LPT2*, or COM1* respectively.
   Not supported on the AXIS PrintPoint 1P 560/100 model.

4. For LaserWriter 8.0 printer driver only:
   Click Setup..., and then Select Auto Setup. If the printer, just as the print server, supports bi-directional printing the installation will then be automatically performed. If not, you will be prompted to select a PPD file matching your printer, then click OK.

5. Click the close box. This completes the configuration.

Repeat this procedure for each Macintosh using the AXIS 560.

Windows

Supplied on the AXIS Utilities diskette, the AXIS Print Monitor should be used for network printing within Windows 95 and Windows NT environments. The AXIS Print Monitor supports NetBIOS/NetBEUI as well as LPR printing.

The AXIS Print Utility for Windows is also supplied on the AXIS Utilities disk and is the tool for network printing within Windows for Workgroups and Windows 3.1 environments.

Follow the instructions on the AXIS Utilities diskette label to install the appropriate printing tool for your environment.

Windows 95 and NT

Although the AXIS Print Monitor user dialog will vary slightly between Windows 95 and Windows NT, the functionality of the two variants is exactly the same.

Peer-to-Peer Printing:

The AXIS Print Monitor needs to be installed on each workstation performing peer-to-peer printing. Follow the procedure below to install Axis printer ports:

1. Start the Add Printer Wizard by selecting Settings - Printers from the Start Menu and double-click on the Add Printer icon.

2. Select Local Printer (Windows 95) or My Computer (Windows NT). Click OK.

3. Follow the rest of the Add Printer Wizard's instructions to perform the remaining steps of the installation process.

Note:

❏ If you want to install a printer to a new LPR port, refer to the User's Manual section 5 for further details.

Client-server printing:

The AXIS Print Monitor is not needed on the client platforms for client-server printing.

Windows 3.1 and Windows for Workgroups

All Windows 3.1 and Windows for Workgroups users requiring access to a network printer in peer-to-peer mode, will need to install the AXIS Print Utility for Windows onto their workstations.

Client-server printing:

This print method is suitable for larger networks and requires only one user to install the AXIS Print Utility for Windows software onto their workstation. The setup procedure is described below:

1. Install AXIS Print Utility for Windows onto the file server.

2. Set up your AXIS 560/660 from the file server as described in the peer-to-peer printing section below, but additionally check the Share box for your printer.

Your shared printers can now be used by all the Windows clients and you do not need to install the AXIS Print Utility on the clients.

Important note:

❏ The server setup described on the previous page should only be made on a Windows for Workgroups workstation.

Peer-to-peer printing:

This print method does not require a file server and is recommended for smaller networks. Follow these steps to install your AXIS 560/660 for peer-to-peer printing at a Windows for Workgroups or Windows 3.1 workstation:

1. Double-click the AXIS Print Utility icon.

2. In the Port menu, click Add.

3. In the NPS Port list, select the AXIS 560/660 port to be installed. The ports appear as <name>.LP1, <name>.LP2*, and <name>.CM1*, where <name> is AX followed by last six digits of the AXIS 560/660 serial number. For example: AX560B35.LP1 Note that this alphanumeric name will be superseded by any new name given to your AXIS 560/660 when using AXIS NetPilot™. **Not supported on the AXIS PrintPoint 1P 560/100 model.*

4. Accept or change the suggested Windows port name, and type any comments in the Description field. Make a note of the Windows port name as you will need this later. Click OK to install the Windows port.

5. In the Port menu, click Connect to bring up the Windows Printers dialog.

6. Select a printer driver from the list of Installed Printers, or click Add>> to install a new driver. Click Connect...

7. Select the Windows port name defined in step 4 above that should now feature at the bottom of the Ports list.

8. Click OK to close the Connect dialog, and Close to close Printers.

The setup is completed and you can now print through your AXIS 560/660.

Important notes:

❏ Windows 3.1 will require network support such as LAN Server or LAN Manager Workstation software to be installed in order to redirect a local printer port to a network device.

❏ AXIS Print Utility for Windows must be running when you print through your AXIS 560/660. We strongly recommend that you copy the AXIS Print Utility icon into your StartUp file.

Windows Clients using LANtastic

From any Windows client, the AXIS 560/660 may also be used for network printing within LANtastic environments. Your choice of Axis utility software should be guided by type of Windows client employed. Simply refer to the appropriate Windows Section for your client, above. Please ensure that your LANtastic client is running the desired printing protocol.

OS/2

Firstly, ensure that the NetBEUI protocol is active. If necessary, use MPTS/LAPS (LAN Server) or SETUP (LAN Manager) to activate it.

Load AXIS Print Utility for OS/2 and Install your AXIS 560/660:

1. Insert the Print Utilities for OS/2 disk into your disk drive, and open an OS/2 window. Execute the **install.exe** program.

2. With the AXIS Print Utility running, install your AXIS 560/660 by clicking Install. The ports appear as <name>.LP1, <name>.LP2*, and <name>.CM1*, where <name> is AX followed by last six digits of the AXIS 560/660 serial number. For example: AX560B35.LP1. Note that this alphanumeric name will be superseded by any new name given to your AXIS 560/660 when using AXIS NetPilot™.
   *Not supported on the AXIS PrintPoint 1P 560/100 model.

3. Select the ports you want to install, then click Install.

Repeat this procedure for each server using the AXIS 560/660.

Create a Print Queue (OS/2 version 1.x):

1. Double-click the Print Manager icon, click Setup, then select Printers...

2. Click Add to make a new printer definition, then type a name of your choice in the Name field.

3. Select \PIPE\<name>.LP1 or \PIPE\<name>.LP2 from the Device list, then select a printer driver suitable for your printer.

4. Click Add, then click OK to confirm the printer definition.

5. Click Setup, then select Queues...

6. Click Add to create a print queue. Type a name in the Name field.

7. Click Add, then click OK to confirm the queue definition.

Create a Print Queue (OS/2 version 2.x and above):

1. Double-click the Templates folder, then drag the Printer icon out to the Workplace Shell (or into a folder) while holding the right mouse button down.

2. Type a name of your choice in the Name field.

3. Select \PIPE\<name>.LP1 or \PIPE\<name>.LP2 from the Port list, and select a printer driver suitable for your printer from the Standard Printer list.

4. Click OK to confirm the printer definition.

Print queue sharing:

Open an OS/2 window and issue the following command:
NET SHARE queue_name /PRINT, where queue_name is the name of the queue to be created.

Important note:

❏ AXIS Print Utility for OS/2 must be running when you print through your AXIS 560/660. We strongly recommend that you copy the AXIS Print Utility icon into your StartUp file.

Web Management

After assigning an Internet address and an optional host name to the AXIS 560/660, as described in the UNIX section of this document, you are now able to access your AXIS 560/660 from any standard Web browser. To do this, simply enter the Internet address or the host name of the AXIS 560/660 as a URL in your browser, as follows:

```
http://192.36.253.96 or
http://salesdept
```

The Home Page of the AXIS 560/660 will now be displayed in your browser, where links to the AXIS 560/660 Configuration, Management, Status, Account, and Help services are available.

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