Printserver
PS1103
Quick Installation Guide

Overview

This Quick Installation Guide provides a description of the installation of the PS1103. It contains the following information:

Safety Regulations

General Information

Hardware Installation

Finding the Print Server in the Network

Printing via the Print Server

Configuring the Print Server

Please note the table of contents on page 7. Should you have any further questions, please contact our support hotline.

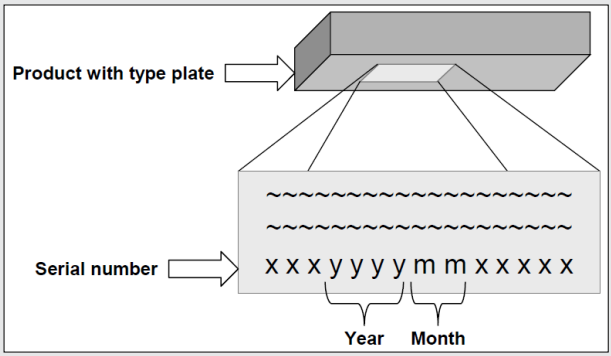
Monday - Friday (excluding holidays) 9:00 a.m. to 5:30 p.m. (Eastern Time)

+1-610-943-3226

support@seh.de

Date of Manufacture

The serial number includes the date of manufacture.
The serial number can be found on the type plate.



Safety Regulations

English [EN]

Print servers are active network components for printers in office environments and are designed for the direct integration of printers into networks.

Before starting the initial setup procedure and during the operation of the print server, please note the following safety regulations. Their purpose is to protect yourself and others from personal injuries, and avoid damage to the equipment.

- Read the documentation and make sure that your system meets the requirements listed therein.
- Avoid contact with humidity or liquids.
- The device must only be connected and operated if it is in perfect condition.
- Make sure that no-one steps on or stumbles over the cables.
- If the supplied power cord cannot be used in your country, acquire an appropriate power cord that suits national provisions. For more information, consult your retailer.
- Do not connect a telephone cable to the RJ-45 connector. The RJ-45 connector may only be connected to SELV voltages. For the connection to the RJ-45 connector only STP cabling (category 5 or better) may be used. The shielding must fit flushly to the connector.
- Do not open the housing. Unauthorized modifications to the device can affect the product certification and are forbidden.
- The device must not be directly connected to outdoor lines.
- The device must only be operated using the power pack included in the package.
- Only use a certified USB cable (< 3 m) listed at www.usb.org.
- Electrostatic discharges (ESD) may impair device performance.
- An interruption of the supply voltage may impair device performance or cause malfunctions.

Deutsch [DE]

Printserver sind aktive Netzwerkkomponenten für Drucker in Büroumgebungen und dienen zum direkten Einbinden von Druckern in Netzwerken.

Beachten Sie vor Inbetriebnahme und beim Betrieb des Printservers die folgenden Sicherheitsvorschriften, um sich und andere vor Personenschäden zu schützen sowie Beschädigungen am Gerät zu vermeiden.

- Lesen Sie die Dokumentation und stellen Sie sicher, dass Ihr System den aufgeführten Anforderungen entspricht.
- Das Gerät darf nicht mit Feuchtigkeit oder Flüssigkeit in Berührung kommen.
- Das Gerät darf nur in unversehrtem Zustand angeschlossen und betrieben werden.
- Verlegen Sie alle Kabel so, dass niemand darauf treten oder darüber stolpern kann.
- Falls das beiliegende Netzkabel für Ihr Land nicht einsetzbar ist, beschaffen Sie ein passendes Netzkabel mit der jeweiligen nationalen Zulassung. Fragen Sie hierzu Ihren Fachhändler.
- Schließen Sie keine Telefonleitungen an den RJ-45-Stecker an. An diesen darf nur Sicherheitskleinspannung angeschlossen werden. Verwenden Sie für den Anschluss an den RJ-45-Stecker nur STP-Kabel (Kategorie 5 oder besser). Kabelschirm und Steckerschirm des Kabels müssen flächig verbunden sein.
- Öffnen Sie nicht das Gehäuse. Eigenmächtige konstruktive Veränderungen am Gerät können die Produktzertifizierung beeinträchtigen und sind verboten.
- Das Gerät darf nicht direkt an Leitungen die im Freien verlegt sind (outdoor) angeschlossen werden.
- Das Gerät darf nur mit dem mitgelieferten Netzteil betrieben werden.
- Verwenden Sie als USB-Kabel ein zertifiziertes USB-Kabel (< 3 m), das unter www.usb.org gelistet ist.
- Elektrostatische Entladungen (ESD) können die Geräteleistung beeinträchtigen.
- Eine Unterbrechung der Versorgungsspannung kann die Geräteleistung beeinträchtigen oder Fehlfunktionen verursachen.

Français [FR]

Les serveurs d'impression sont des composants actifs réseaux pour les imprimantes dans des bureaux et servent à l'intégration directe des imprimantes dans les réseaux.

Avant l'installation et l'utilisation de votre serveur d'impression, veuillez suivre ces conseils de sécurité pour éviter tout dommage corporel à vous-même et autrui ainsi que tout endommagement de l'appareil.

- Lisez attentivement la documentation et assurez-vous que votre système satisfait bien toutes les exigences mentionnées.
- Évitez le contact avec l'humidité ou avec le liquide.
- Le périphérique doit être connecté et exploité uniquement en parfait état de fonctionnement.
- Assurez-vous que personne ne trébuche ou marche sur les câbles.
- Si le câble d'alimentation inclus dans la livraison n'est pas applicable, achetez un câble d'alimentation convenable et conforme à la disposition régionale. Contactez à ce propos votre commerçant spécialisé.
- Ne branchez aucune ligne téléphonique au connecteur RJ-45. Les connecteurs RJ-45 ne doivent être connectés qu'aux tensions SELV. Pour la connexion au connecteur RJ-45, seuls les câbles STP (catégorie 5 ou supérieur) peuvent être utilisés. Le blindage doit être fixé au connecteur de manière plane.
- Ne pas ouvrir le boîtier. Modification constructive du périphérique non autorisée altère la certification du produit et est interdite.
- Ne pas connecter le périphérique aux lignes posées à l'extérieur.
- Le périphérique doit être connecté à l'alimentation électrique inclue dans la livraison.
- (DES) peuvent influer la performance du périphérique.
- Une interruption de la tension de l'alimentation peut influer la performance du périphérique ou déclencher erreurs de fonctionnement.

Español [ES]

Los servidores de impresión son componentes activos de la red para impresoras en oficinas y sirven para la integración directa de impresoras en redes.

Tenga en cuenta antes de instalar el servidor de impresión y durante su funcionamiento las siguientes precauciones para evitar daños personales a sí mismo y a otras personas así como daños en el aparato.

- Lea la documentación y compruebe que su sistema reúne los requisitos necesarios.
- Evite el contacto con la humedad o con el líquido.
- El dispositivo sólo debe ser conectado y accionado en un estado intacto.
- Cerciórese de que nadie camine en o tropiece con los cables.
- Si el cable de alimentación incluido en el embalaje no puede ser utilizado en su país, adquiera un cable de alimentación apropiado con las normas nacionales. Para más informaciones, consulte su comerciante especializado.
- No conecte la línea telefónica al conector RJ-45. Todos los conectores RJ-45 sólo pueden ser conectados con tensiones SELV. Para la conexión al conector RJ-45, sólo se puede utilizar cables del tipo STP (categoría 5 o mejor). La protección al conector debe ser laminar.
- No abra la caja. Modificación de la construcción del dispositivo sin autorización puede afectar la certificación del producto y es prohibido.
- El dispositivo no debe conectarse directamente a líneas exteriores.
- El dispositivo tiene que ser conectado al adaptador de corriente incluido en el embalaje.
- Las descargas electrostáticas (ESD) pueden afectar al rendimiento del dispositivo.
- Una interrupción de la tensión de alimentación puede afectar al rendimiento del dispositivo o provocar un mal funcionamiento.

Table of Contents

General Information 8
Purpose 8
Scope of Supply 8
Technical Data. 9
LED Display 10
Additional Features. 10

Hardware Installation. 11
Connecting the Print Server to the Printer 11
Connecting the Print Server to the Network 12

Finding the Print Server in the Network. 13
Installing and starting the InterCon-NetTool 13
Finding the Print Server (Determining the IP Address). 14
Changing the IP address 14

Printing via the Print Server 15
Printing in Windows 10 15
Printing in macOS High Sierra (10.13). 16

Print Server Configuration 18

General Information

Purpose

The print server 'PS1103' is an active network component which directly integrates printers or multifunction printers (MFP) into networks. The print server receives print jobs and forwards them to the printer or MFP.

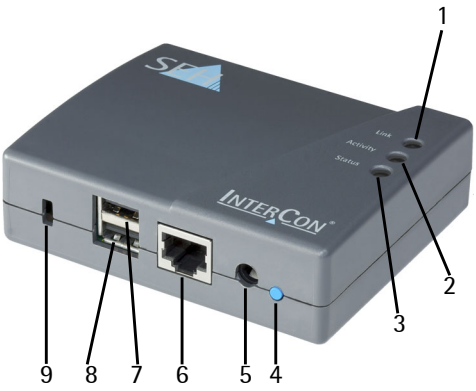
The administration of the PS1103 is done via the 'Printserver Homepage'.

Scope of Supply

Please check the package content before getting started:

	Print server	Print server 'PS1103'
	Quick Installation Guide	The Quick Installation Guide provides a brief description of the installation of the PS1103. (This document)
	Power pack	External power pack

Technical Data



1) Link LED (green)
2) Activity LED (yellow)
3) Status LED (green)
4) Button (status/reset)
5) Connector for the included power pack
6) Network connector
7) USB port 1
8) USB port 2
9) Kensington security slot

Properties	Values
Network connector logical: physical:	 - IEEE 802.3 (1000BaseT, 100BaseTX, and 10BaseT) - RJ-45
Printer port	- 2 × USB 2.0 Hi-Speed
Current input	- 360 mA at 5 VDC without load - 1800 mA at 5 VDC with full load on the USB ports
Power consumption	approx. 26 kWh/year
Operating environment	- Ambient temperature: 5–40 °C - Relative humidity: 20–80 %
Dimensions	- Width: 98 mm - Height: 31 mm - Depth: 81 mm - Weight: 100 g

LED Display

The LEDs of the print server provide information about its status.

LED	Action	Color	Description
Link	permanently on	green	There is a connection to the network.
	permanently off	–	There is no connection to the network.
Activity	blinks at irregular intervals	yellow	Indicates the exchange of network data packets.
Status	permanently on	green	The print server is operational.
	permanently off	–	If the activity LED blinks periodically at the same time, the BIOS mode is signalized.

During the activation procedure, the behavior of the LEDs differs from this description.

Additional Features

Theft protection

The print server can be protected against theft with a Kensington lock. For this purpose, the print server has a slot ⇨9. For more information, read the manual of your Kensington lock.

(Note: The Kensington lock is not included in delivery.)

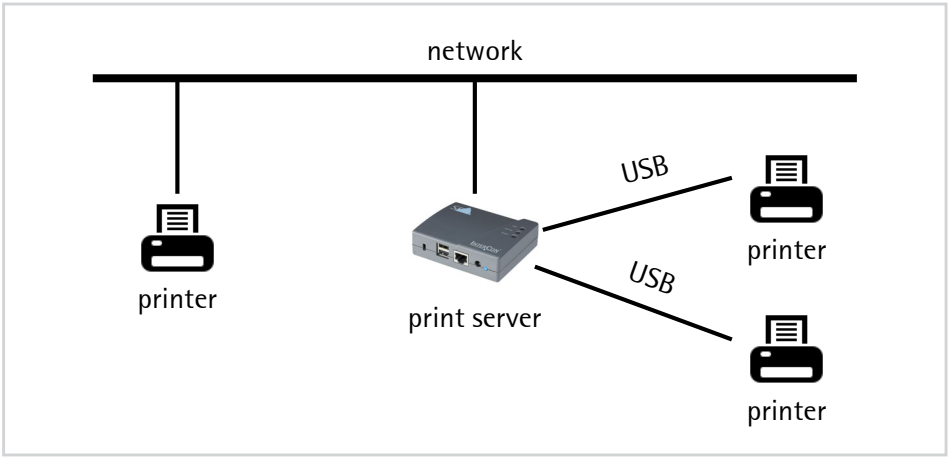
Hub expansion

You can connect a USB hub to the USB port 2 of the print server and use up to four printers at the hub.

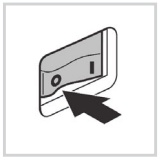
(Note: The USB hub is not included in delivery.)

Hardware Installation

Up to 2 USB printers can be connected to the print server (PS1103) via the USB interfaces.

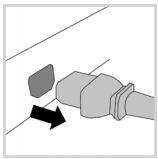


Connecting the Print Server to the Printer

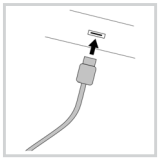


Proceed as follows:

1. *Turn the printer off.*

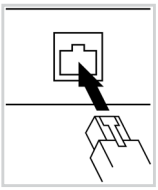


2. *Disconnect the power cord from the printer. (Interrupt power supply)*



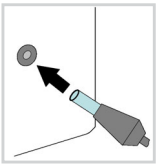
3. *Connect the printer and the print server using the USB data cable. (If necessary, disconnect the USB data cable from the computer prior to that.)*

Connecting the Print Server to the Network

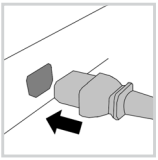


Proceed as follows:

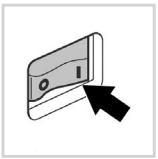
1. *Connect the network cable (RJ-45) to the print server.*



2. *Connect the power cord to the print server.*



3. *Connect the power cord to the printer.*



4. *Turn the printer on.*

In order to verify the installation you can print a status page. To do this, press the print server's button for a short time.

A status page can only be printed if the printer supports the data formats ASCII, PostScript, DATAMAX (label printer), or Citizen-Z (label printer).

Finding the Print Server in the Network

Once the print server is connected to the network, it checks whether an IP address can be obtained from the boot protocols BOOTP or DHCP. If this is not the case, the print server assigns itself an IP address via Zeroconf from the address range (169.254.0.0/16) which is reserved for Zeroconf.

The 'InterCon-NetTool' has been developed by SEH Computertechnik GmbH for the administration of SEH print servers. By means of this tool you can find the print server's IP address and, if necessary, assign a suitable IP address to the print server, as described below.

- 'Installing and starting the InterCon-NetTool' ⇨🗎13
- 'Finding the Print Server (Determining the IP Address)' ⇨🗎14
- 'Changing the IP address' ⇨🗎14

The client, printer and print server must be assigned to the same local network segment.

Installing and starting the InterCon-NetTool

Proceed as follows:

1. *Download the installation file for the InterCon-NetTool from the homepage of the SEH Computertechnik GmbH:*

   http://www.seh-technology.com/products/print-server-external/ps1103-us.html

2. *Start the InterCon-NetTool installation file.*
3. *Select the desired language.*
4. *Follow the installation routine.*
   The InterCon-NetTool will be installed on your client.
5. *Start the InterCon-NetTool on your client.*

↳ After the InterCon-NetTool was started, it searches the network for existing devices and displays them in the 'device list'.

Detailed information on how to use the InterCon-NetTool can be found in the Online Help. To start the Online Help, select **Help – Online Help** from the menu bar.

Finding the Print Server (Determining the IP Address)

All SEH print servers found in the network are displayed in the device list.

If the print server has received an IP address via the boot protocols BOOTP or DHCP, you can identify it with the help of it's type designation. If you are using several print servers of the same type, identify the print server using it's hardware address. You can find the hardware address in the type plate at the bottom of the print server; see: ⇨🗎2.

If the print server has assigned itself an IP address via Zeroconf from the address range (169.254.0.0/16) which is reserved for Zeroconf, it will be displayed in the device list under the 'Zeroconf' filter. Assign a new IP address to the print server; see: 'Changing the IP address' ⇨🗎14.

Changing the IP address

Wizards facilitate the installation and configuration of network devices via the InterCon-NetTool. The 'IP Wizard' is available for the print server. You can easily enter the desired IP address and save it in the print server using the IP Wizard.

Make sure that:

- The InterCon-NetTool is installed and running; ⇨🗎13.
- You know the print server's current IP address; ⇨🗎14.

Proceed as follows:

1. *Mark the print server in the device list.*
   The print server is displayed in the device list under the filter 'Zeroconf' with an IP address from the address range (169.254.0.0/16) which is reserved for Zeroconf.
2. *Select* **Installation – IP Wizard**.
   The IP Wizard is started.
3. *Follow the instructions of the IP Wizard.*

↳ The settings are saved.

Printing via the Print Server

The print server embeds non-network-ready printers into the network. In order to print via the print server, the printers connected to the print server must be set up as printers on the client system.

The printers can be set up in different operating systems.

- 'Printing in Windows 10' ⇨🗎15
- 'Printing in macOS High Sierra (10.13)' ⇨🗎16

More installation procedures for other operating systems and printing protocols can be found in the print server User Manual. The download link can be found on page ⇨🗎13.

Printing in Windows 10

The printers are set up on the client using the Windows settings.

Make sure that:

- The hardware installation has been done; see: ⇨🗎11.
- The print server and the printer are turned on.
- The print server is known to the network via its IP address, see: ⇨🗎13.

Proceed as follows:

1. *Open the* **Start** *menu.*
2. *Select* **Settings**.
   The **Settings** *dialog appears.*
3. *Select* **Devices**.
   The **Add printers & scanners** *dialog appears.*
4. *Select* **Add a printers or scanners**.
   Printers and scanners are searched for.
5. *Scroll down to the end of the result list and select* **The printer that I want isn't listed**.
   The **Add printer** *dialog appears.*
6. *Tick* **Add a local printer or network printer with manual settings**.
7. *Click* **Next**.

8. *Tick* **Create a new port**.
9. *From the list* **Type of port**, *select* **Standard TCP/IP Port**.
10. *Click* **Next**.
11. *In the* **Hostname or IP address** *box, enter the IP address of the print server.*

Omit leading zeros from the IP address!

12. *Enter a description into the* **Port name** *box.*
13. *Untick* **Query the printer and automatically select the driver to use**.
14. *Click* **Next**.
15. *(In the area* **Device Type**, *tick* **Standard**.*)*
16. *(Select* **Generic Network Card** *from the list.)*
17. *(Click* **Next**.*)*
18. *From the lists* **Manufacturer** *and* **Printers**, *select the printer model.*
19. *Click* **Next**.
20. *Enter a description into the* **Printer name** *box.*
21. *Click* **Next**.
    The printer is being installed.
22. *Tick* **Do not share this printer**.
23. *Click* **Next**.
24. *Click* **Print a test page**.
    The test page is printed.
25. *Click* **Finish**.

↳ The printer is set up on the client. If you print via the printer you have set up, the print job will be printed on the printer connected to the print server.

Printing in macOS High Sierra (10.13)

The printers are set up on the client using the system preferences.

Make sure that:

- The hardware installation has been done; see: ⇨🗎11.
- The print server and the printer are turned on.
- The print server is known to the network via its IP address, see: ⇨🗎13.

Proceed as follows:

1. *Open the* **System Preferences**.
2. *Click* **Printers and Scanners**.
3. *Click the* + *icon.*
   The **Add** *dialog appears.*
4. *Click* **IP**.
5. *Into the* **IP Address** *box, enter the IP address of the print server (with leading zeros).*
6. *From the* **Protocol** *list, select Select* **Internet Printing Protocol - IPP**.
7. *Enter freely definable names for* **Name** *and* **Location**.
8. *From the* **Use** *list, select the printer driver.*
9. *Click* **Add**.
   The setting up dialog appears.
10. *Configure the printer options.*
11. *Click* **OK** *to confirm.*

The printer is set up on the client. If you print via the printer you have set up, the print job will be printed on the printer connected to the print server.

Print Server Configuration

The print server has a user interface, the Printserver Homepage, which can be opened in an Internet browser (Microsoft Edge, Mozilla Firefox, Safari).

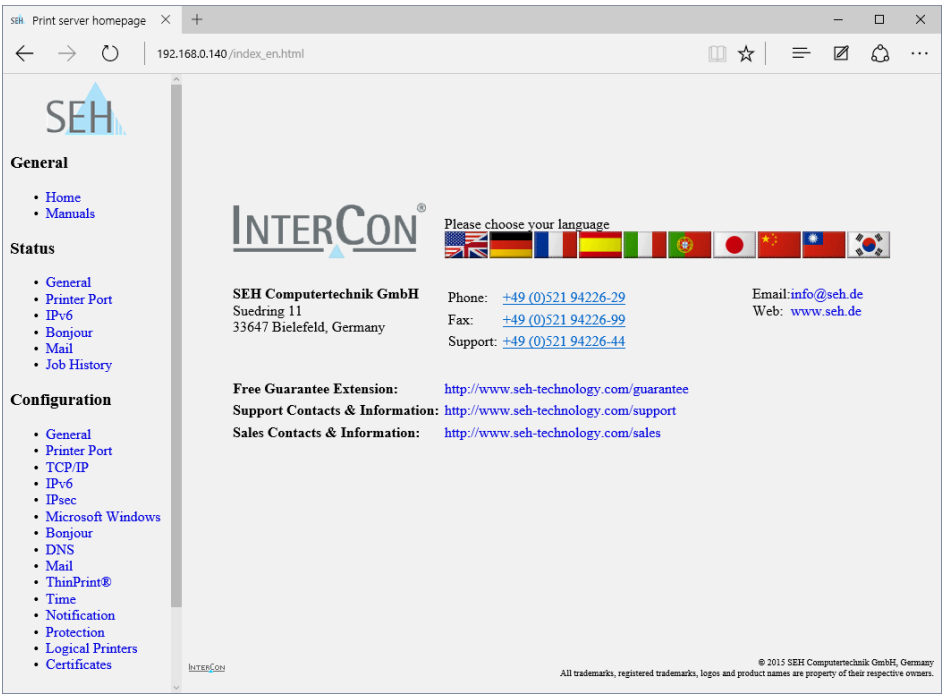
The print server can be configured and monitored via the Printserver Homepage.

Proceed as follows:

1. *Open your browser.*
2. *Enter the IP address of the print server as the URL.*

The Printserver Homepage will be displayed in the browser.

If the Printserver Homepage is not displayed, check the proxy settings of your browser.



Detailed information on the administration, configuration and monitoring of the print server can be found in the print server user manual. The download link can be found on page ⇨ 13.

Federal Communication Commission (FCC) Notice

Changes or modifications not expressly approved by SEH Computertechnik GmbH could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a **Class B** digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Party issuing SDoC
SEH Computertechnik GmbH
Suedring 11
33647 Bielefeld, Germany
www.seh.de

FC Compliance Statement

Supplier's Declaration of Conformity

Herewith SEH Technology, Inc. declares that

Product: External Print Server

Type designation: **PS1103**

Serial No.: 276 yyyy mm nnnnn (yyyy = year, mm = month, nnnnn = seq. no.)

Device Type: Unintentional Radiator; Other Class B digital devices & peripherals

complies with FCC Title 47 part 15.

Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any receiving interferences received, including interferences that may cause undesired operation.

June 27, 2018

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Email: info@seh.de
Web: http://www.seh.de

Document:
Type: Quick Installation Guide
Title: PS1103
Version: 1.1
Order number: MHAB-QI-PS1103

Online Links to important Internet Resources:

Free Guarantee Extension:	http://www.seh-technology.com/guarantee
Support Contacts and Information:	http://www.seh-technology.com/support
Sales Contacts and Information:	http://www.seh-technology.com/sales
Downloads:	http://www.seh-technology.com/services/downloads.html

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