SHARP

2-line LAN Expansion Guide

TABLE OF CONTENTS

ABOUT THIS GUIDE

This guide details how to configure a multifunction machine and precautions when a wired LAN adaptor is used to share the multifunction machine on two networks.

Please note

- This guide assumes that the persons who install and use this product have a working knowledge of their computer and web browser.
- For information on your operating system or web browser, please refer to your operating system guide or web browser guide, or the online Help function.
- The explanations of screens and procedures are primarily for Internet Explorer®. The screens may vary depending on the version of the operating system or the software application.
- Considerable care has been taken in preparing this guide. If you have any comments or concerns about the guide, please contact your dealer or nearest authorized service representative.
- This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest authorized service representative.
- Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.

Warning

- Reproduction, adaptation or translation of the contents of the guide without prior written permission is prohibited, except as allowed under copyright laws.
- All information in this guide is subject to change without notice.

Illustrations, the operation panel, the touch panel, and the Web page setup screen shown in this guide

For some functions and procedures, the explanations assume that devices other than the above are installed. Depending on the content, and depending on the model and what peripheral devices are installed, this may not be usable. For details, refer to the User's Manual provided with the multifunction machine.
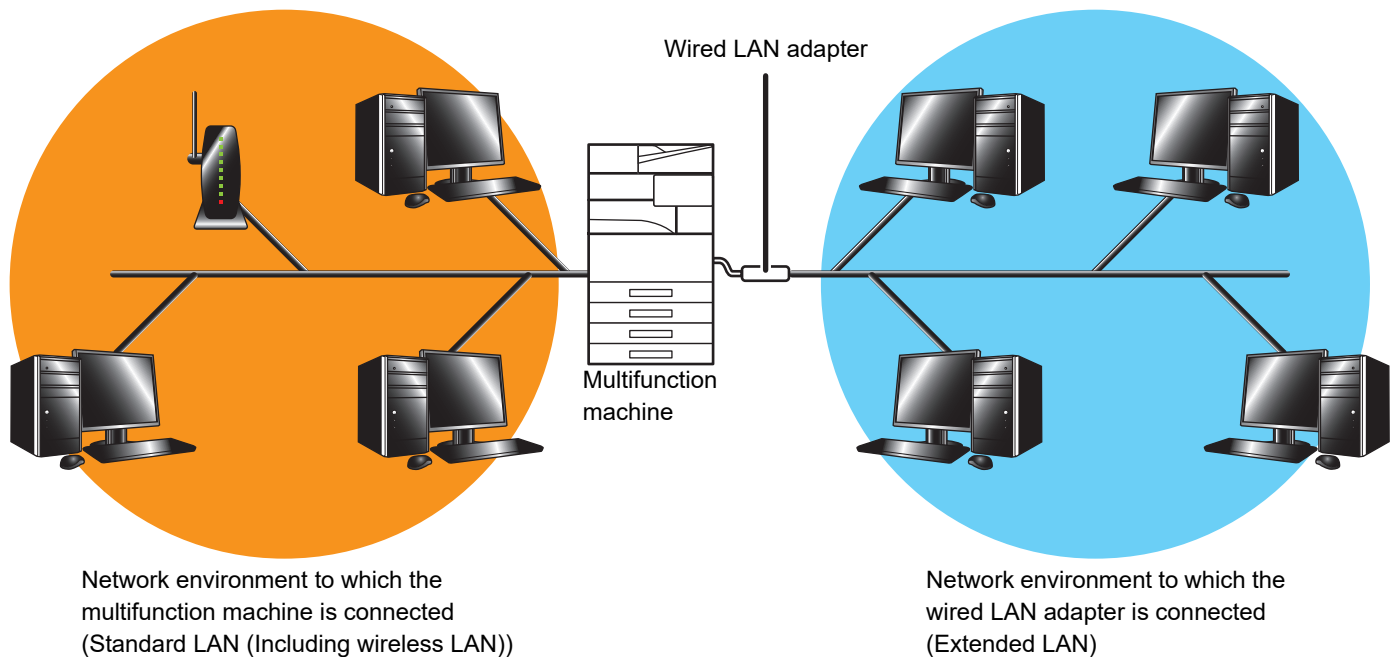
> The display screens, messages, and key names shown in the guide may differ from those on the actual machine due to product improvements and modifications.
> The information described in the guide assume a full-color multifunction machine is being used.
> Some contents may not be available on a monochrome multifunction machine.

2-LINE LAN FUNCTION

The multifunction machine is equipped with a LAN connector as standard. Fitting a wired LAN adapter allows connection to a different network environment, so that a multifunction machine can be shared from a different network.

Wired LAN adapter

Multifunction machine

Network environment to which the multifunction machine is connected (Standard LAN (Including wireless LAN))

Network environment to which the wired LAN adapter is connected (Extended LAN)

> In this guide, the network environment connected to the multifunction machine standard LAN connector or wireless LAN is referred to as the "standard LAN", and the network environment to which the wired LAN adapter is connected is referred to as the "Extended LAN".

Cautions when using the 2-line LAN function

- When computers with the same IP address or computer name exist on both the standard LAN and Extended LAN sides, the multifunction machine may send data to the wrong destination. Accordingly, set different segmenting on the standard LAN and Extended LAN sides, and ensure that there are no duplicate IP addresses or computer names.
- The default gateway can only be configured for the standard LAN side. Data is not sent from the Extended LAN side to areas outside the segment.
- The multifunction machine does not bridge/route between the standard LAN and the extended LAN. Communication from the standard LAN to the extended LAN via the multifunction machine and vice versa is not possible.
- Depending on the configuration of the network you are using, setting the client port to active may cause unexpected errors to occur.
- Depending on the settings of extended LAN, operate it after consultation and verification by both network administrators when using because there is a possibility that information leakage may occur to each the standard LAN and Extended LAN. SHARP bears no responsibility for damage that occur sue to incorrect operation of the product.
- When "Public Folder / NAS Setting" is enabled, the shared storage in the multifunction machine can be accessed from both the standard LAN and the extended LAN.
  To prohibit file transmission/reception via the multifunction machine, it is recommended to disable "Public Folder / NAS Setting" when using the extended LAN.

3

BEFORE USING THE 2-LINE LAN FUNCTION

Connect the wired LAN adapter to the multifunction machine, and configure the network.

CONNECTING THE WIRED LAN ADAPTER

With the multifunction machine power turned off, connect the wired LAN adapter to the USB port (A type) on the multifunction machine.
For details on connection methods, etc., refer to the User's Manual supplied with the wired LAN adapter.
For wired LAN adapters that can be used, please contact your dealer or nearest authorized service representative.

• Do not remove/insert the wired LAN adapter when the multifunction machine power is turned on.

• If the wired LAN adapter is mistakenly removed when the multifunction machine power is turned on, turn off the multifunction machine power, connect the wired LAN adapter, and then turn on the multifunction machine power.

2-LINE LAN FUNCTION CONFIGURATION

Configure the multifunction machine as follows.

✎ For information on configuring the standard LAN, refer to the User's Manual supplied with the multifunction machine.

Extended LAN Settings

In "Settings (Administrator)", select [System Settings] → [Network Settings] → [Extended LAN Settings].

Item	Factory default setting
■ Extended LAN Settings	
● Enable Extended LAN	Enable
● IPv4 Settings	
▶ DHCP	Enable
▶ IPv4 Address	0.0.0.0
▶ Subnet Mask	0.0.0.0
● IPv6 Settings	
▶ IPv6	Enable
▶ DHCPv6	Enable
▶ Manual Address / Prefix Length	-
● MTU Settings	
▶ MTU	1500
● Ping Command	
▶ IPv4	-
▶ IPv6	-
● DNS Settings	-
▶ IPv4 Settings	
◆ Primary Server	-
◆ Secondary Server	-
▶ IPv6 Settings	
◆ Primary Server	-
◆ Secondary Server	-
▶ Domain Name	-
● IEEE802.1X Setting	
▶ IEEE802.1X Authentication (Wired)	Disable
▶ EAP Authentication Method	EAP-TLS
▶ EAP User Name	-
▶ Password	-

5

Item	Factory default setting
▶ Server Authentication	Enable
▶ EAP Timeout	10
▶ Number of EAP Retries	3 Time
▶ Certificate Status	(Displays certificate installation status)
▶ CA Certificate Status	(Displays certificate installation status)

Port Control (Extended LAN)

In "Settings (Administrator)", select [System Settings] → [Security Settings] → [Port Control (Extended LAN)].

Port number of Port Control (Extended LAN) shows the port number set on the standard LAN and cannot be changed in the Extended LAN settings.

Item	Factory default setting
■ Port Control (Extended LAN)	
● Server Port	
▶ HTTP	Enable
◆ Port Number	80
▶ HTTPS	Enable
◆ Port Number	443
▶ FTP Print	Enable
◆ Port Number	21
▶ Raw Print	Enable
◆ Port Number	9100
▶ LPD	Enable
◆ Port Number	515
▶ IPP	Enable
◆ Port Number	631
▶ IPP-SSL/TLS	Disable
◆ Port Number	443
▶ Tandem Output Receive	Disable
◆ Port Number	50001
▶ PC Scan	Disable*
◆ Port Number	52000
▶ Remote Operation Panel	Disable
◆ Port Number	5900
▶ SNMPD	Enable
◆ Port Number	161
▶ SMB	Disable
▶ SMTP	Disable
▶ BMLinkS	Disable*
▶ WSD	Disable*

Item	Factory default setting
▶ Print Release	Disable
◆ Port Number	53000
▶ Sharp OSA (Extended Platform)	
◆ HTTP	Enable
• Port Number	10080
◆ HTTPS	Enable
• Port Number	10443
● Client Port	
▶ HTTP	Disable
▶ HTTPS	Disable
▶ FTP	Disable
▶ FTPS	Disable
▶ SMTP	Disable
▶ SMTP-SSL/TLS	Disable
▶ POP3	Disable
▶ POP3-SSL/TLS	Disable
▶ SNMP-TRAP	Disable
◆ Port Number	Disable
▶ Notify Job End	Disable
▶ LDAP	Disable
▶ LDAP-SSL/TLS	Disable
▶ SMB	Disable
▶ SNTP	Disable
▶ mDNS	Enable
▶ Tandem Output Send	Disable
▶ Data Backup	Disable
▶ Print Release	Disable
▶ XMPP	Disable
▶ syslog	Disable
◆ Port Number	514
▶ syslog-SSL/TLS	Disable
◆ Port Number	6514

* Setting cannot be changed.

SHARP

SHARP CORPORATION