

AX3600S

AX2400S

ALAXALA AX3600S/AX2400S
Hardware Instruction Manual Corrections

■ Preface

This document contains corrections for the AX3600S/AX2400S Hardware Instruction Manual (© 2005, 2007 ALAXALA Networks Corporation. All rights reserved.).

If you intend to use an AX2400S or AX3600S switch, please read this document carefully.

This document applies to the following manual:

No.	Manual Name	Manual Number
1	ALAXALA AX3600S/AX2400S Hardware Instruction Manual	AX36S-H001-50

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■ Note

The information in this document is subject to change without notice.

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Introduction

■ Limits for Harmonic Current Emissions

The list of devices that meet the standards for harmonic current emissions is corrected as follows:

Corrections

Products conforming to the JIS C 61000-3-2 standards for harmonic current emissions

Conforming devices:

AX-2430-24T	(AX2430S-24T)
AX-2430-24TE	(AX2430S-24T)
AX-2430-24T2X	(AX2430S-24T2X)
AX-2430-24T2XE	(AX2430S-24T2X)
AX-2430-48T	(AX2430S-48T)
AX-2430-48TE	(AX2430S-48T)
AX-2430-48T2X	(AX2430S-48T2X)
AX-2430-48T2XE	(AX2430S-48T2X)
AX-3630-24T	(AX3630S-24T)
AX-3630-24TE	(AX3630S-24T)
AX-3630-24T2X	(AX3630S-24T2X)
AX-3630-24T2XE	(AX3630S-24T2X)
AX-3630-24P	(AX3630S-24P)
AX-3630-24S2XW	(AX3630S-24S2XW)
AX-3630-24S2XWE	(AX3630S-24S2XW)
AX-3630-48TW	(AX3630S-48TW)
AX-3630-48TWE	(AX3630S-48TW)
AX-3630-48T2XW	(AX3630S-48T2XW)
AX-3630-48T2XWE	(AX3630S-48T2XW)
AX-3640-24T	(AX3640S-24T)
AX-3640-24TE	(AX3640S-24T)
AX-3640-24TW	(AX3640S-24TW)
AX-3640-24T2XW	(AX3640S-24T2XW)
AX-3640-24SW	(AX3640S-24SW)
AX-3640-24SWE	(AX3640S-24SW)
AX-3640-24S2XW	(AX3640S-24S2XW)
AX-3640-24S2XWE	(AX3640S-24S2XW)
AX-3640-48TW	(AX3640S-48TW)
AX-3640-48TWE	(AX3640S-48TW)
AX-3640-48T2XW	(AX3640S-48T2XW)
AX-3640-48T2XWE	(AX3640S-48T2XW)
AX-F2430-EPUA	(EPU-A)
AX-F2430-EPUB	(EPU-B)

1 Components Overview

1.1 Main Device

1.1.1 AX2430S-24T/AX2430S-24TD/AX3630S-24T/AX3630S-24TD/AX3640S-24T Models

Table 1-2 on page 5 is corrected as follows:

Corrections

Table 1-2 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	1-24	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Blinking green: A link is established and frames are being sent or received Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	RESET	Switch (momentary)	Manual reset switch of the device ^{*1}	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

**1.1.3 AX2430S-24T2X/AX2430S-24T2XD/AX3630S-24T2X/
AX3630S-24T2XD**

Table 1-7 on page 12 is corrected as follows:

Corrections

Table 1-7 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	LINK	Green/Orange LED	Indicates the operating status of the XFP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	T/R	Green LED		Blinking green: Sending or receiving frames
(11)	1-24	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Blinking green: A link is established and frames are being sent or received Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(12)	RESET	Switch (momentary)	Manual reset switch of the device ^{*1}	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

1.1.5 AX3630S-24P Model

Table 1-12 on page 20 is corrected as follows:

Corrections

Table 1-12 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	1-24	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Blinking green: A link is established and frames are being sent or received Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	RESE	Switch (momentary)	Manual reset switch of the device ^{*1}	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

1.1.6 AX2430S-48T/AX2430S-48TD Models

Table 1-13 on page 23 is corrected as follows:

Corrections

Table 1-13 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	1-48	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Blinking green: A link is established and frames are being sent or received Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	RESET	Switch (momentary)	Manual reset switch of the device*1	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

1.1.7 AX3630S-48TW/AX3640S-48TW Models

Table 1-14 on page 26 is corrected as follows:

Corrections

Table 1-14 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	1-48	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Blinking green: A link is established and frames are being sent or received Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	RESET	Switch (momentary)	Manual reset switch of the device ^{*1}	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

1.1.11 AX3630S-24S2XW/AX3640S-24S2XW Models

Table 1-18 on page 38 is corrected as follows:

Corrections

Table 1-18 LED indication, switches, and connectors

Number	Name	Type	Description	Details
(1)	PWR	Green LED	Indicates power supply status	Lit in green: Power on Off: Power off or failure in power supply
(2)	ST1	Green/Red LED	Indicates device status	Lit in green: Standby or operating Blinking green: Getting ready (startup) Blinking red: Partial failure in the device Lit in red: Fatal failure in the device (operation cannot continue) Off: Power off or failure in power supply
(3)	ST2	Green LED	(Not used)	Off
(4)	MC	Connector	Memory card slot	Memory card slot
(5)	ACC	Green LED	Indicates memory card status	Lit: Accessing the memory card (do not remove the memory card) Off: Memory card idle mode (memory cards can be inserted or removed)
(6)	CONSOLE	Connector	CONSOLE port	RS-232C port to connect a console terminal
(7)	LINK	Green/Orange LED	Indicates the operating status of the 10/100/1000BASE-T Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(8)	T/R	Green LED		Blinking green: Sending or receiving frames
(9)	LINK	Green/Orange LED	Indicates the operating status of the SEP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(10)	T/R	Green LED		Blinking green: Sending or receiving frames
(11)	LINK	Green/Orange LED	Indicates the operating status of the XFP slot Ethernet port	Lit in green: A link is established Lit in orange: Detecting line disturbances Off: Link failure or block when the green ST1 LED is lit
(12)	T/R	Green LED		Blinking green: Sending or receiving frames
(13)	RESET	Switch (momentary)	Manual reset switch of the device *1	Restarts the device

*1: The switch is behind the front panel. Use a screwdriver with a small head to press it.

1.4 External Power Unit (EPU)

Table 1-25 on page 50 is corrected as follows:

Corrections

Table 1-25 Compatibility of main devices with external power units (EPUs) and power supply modules

Main Device		Compatible EPU	Compatible Power Supply Module
Power Type	Model Name		
AC power model	AX2430S-24T	EPU-A	EPU-AM
	AX2430S-24T2X		
	AX2430S-48T		
	AX2430S-48T2X		
	AX3630S-24T		
	AX3630S-24T2X		
	AX3640S-24T		
AC power (PoE) model	AX3630S-24P	EPU-B	EPU-BM

1.7 Transceiver

1.7.1 SFP

Descriptions of the SFP on pages 63 and 64 are corrected as follows:

Corrections

To use the SFP, mount it to the SFP slot of the main device. The SFP type can be identified by either of the following:

- The shape and handle color of the SFP (except for the SFP-FX (T) and the SFP-SX (T))
- The label

Note that the supported SFPs differ depending on the device. For compatibility between devices and SFPs, refer to Table 1-32 *SFP list*.

NOTE To visually distinguish between the SFP-FX (T) and the SFP-SX (T), check the labels.

NOTE When the SFP is mounted on the device, use the show port command to determine the SFP type from the displayed interface information. For details about the show port command, see 14. *Ethernet in Software Manual Operation Command Reference Vol. 1*.

Table 1-32 SFP list

Number	Module Name	Interface	Supported Models
1	SFP-T (T)	Ethernet 10/100/1000BASE-T (PoE not supported)	AX3630S-24S2XW ^{*1} AX3640S-24SW ^{*1} AX3640S-24S2XW ^{*1}
1a	SFP-FX (T)	Ethernet 100BASE-FX	AX3640S-24SW ^{*1} AX3640S-24S2XW ^{*1}
2	SFP-SX (T)	Gigabit Ethernet 1000BASE-SX	All models of AX2400S and AX3600S series
3	SFP-SX2 (T)	Gigabit Ethernet 1000BASE-SX2	
4	SFP-LX (T)	Gigabit Ethernet 1000BASE-LX	
5	SFP-LH (T)	Gigabit Ethernet 1000BASE-LH	
5a	SFP-LHB (T)	Gigabit Ethernet 1000BASE-LHB	
6	SFP-BX1U (T)	Gigabit Ethernet 1000BASE-BX10-U ^{*2}	
7	SFP-BX1D (T)	Gigabit Ethernet 1000BASE-BX10-D ^{*2}	
8	SFP-BX4U (T)	Gigabit Ethernet 1000BASE-BX40-U ^{*3}	
9	SFP-BX4D (T)	Gigabit Ethernet 1000BASE-BX40-D ^{*3}	

*1: Connection can be established by using SFP slot ports 5 to 24.

*2: 1000BASE-BX10-U and 1000BASE-BX10-D are paired when in use.

*3: 1000BASE-BX40-U and 1000BASE-BX40-D are paired when in use.

⚠ CAUTION

SFPs (except for the SFP-T (T)) use lasers that are colorless and invisible. Do not look directly into the optical transmitter/receiver area.

CAUTION

Do not attach other labels to the transceiver.

The transceivers have labels to certify that they are standard products of the manufacturer and ALAXALA. These labels are attached so as not to interfere with heat radiation from the transceiver or with the mechanism to prevent dropping from the cage.

Attaching a label to a part that interferes with heat radiation or the mechanism to prevent dropping from the cage might cause a failure in the transceiver or damage to the device.

NOTE

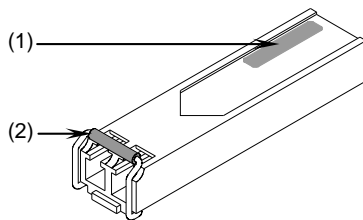
Make sure to use ALAXALA standard products, which have labels as shown in the figures. If nonstandard products are used, correct operation is not guaranteed.

SFP-FX (T) is added as (1a) on page 64:

Addition

(1a) SFP-FX (T)

Figure 1-67a External appearance



- | | |
|-------------------|--------------------|
| (1) Label: | ALAXALA SFP-FX (T) |
| Label color: | White |
| (2) Handle color: | Black |

NOTE

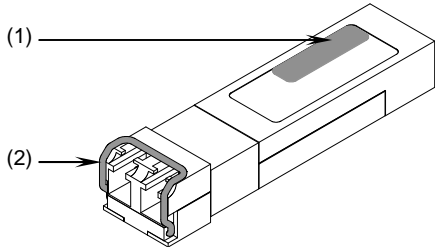
SFP-FX (T) is supported by the following two models: AX3640S-24SW and AX3640S-24S2XW.

SFP-LHB (T) is added as (5a) on page 65:

Addition

(5a) SFP-LHB (T)

Figure 1-71a External appearance



- (1) Label: ALAXALA SFP-LHB (T)
Label color: White
- (2) Handle color: Yellow-green

1.7.2 XFP

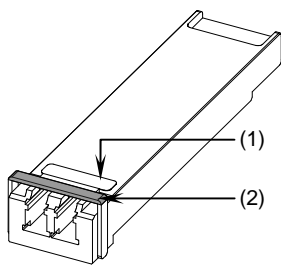
The description in (2) *XFP-LR (T)* on page 69 is corrected as follows:

Corrections

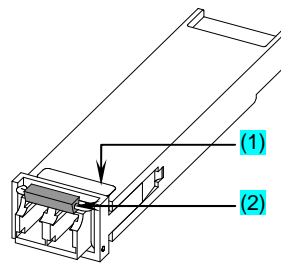
(2) XFP-LR (T)

Figure 1-77 External appearance

●Type A module



●Type B module



- (1) Label: AlaxalA XFP-LR (T)
- (2) Handle color: Blue

NOTE

Two types of XFP-LR are available: the type-A module and the type-B module. These two modules are functionally identical.

2 Preparation for Installation

2.2 Installation Conditions

2.2.1 General Installation Conditions

Tables 2-1 to 2-3 and 2-5 to 2-7 on pages 73 to 77 are corrected as follows:

Corrections

Table 2-1 General installation conditions of AX2400S series main devices (AC or DC power models)

Item	Model Name						
	AX2430S -24T	AX2430S -24T2X	AX2430S -48T	AX2430S -48T2X	AX2430S -24TD	AX2430S -24T2XD	AX2430S -48TD
Dimensions (W × D × H) ^{*1}	445 × 380 × 43 mm						
Weight ^{*2}	5 kg or less		5.5 kg or less		5 kg or less		5.5 kg or less
Input voltage	Rated	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}				-48 V DC	
	Variation range	90 to 127.2 V AC, 180 to 254.4 V AC				-40 to -57 V DC	
Frequency	50/60 ± 3 Hz				--		
Maximum input current	0.8 A @ 100 V AC	0.9 A @ 100 V AC	1.2 A @ 100 V AC	1.3 A @ 100 V AC	1.5 A @ -48 V DC	1.7 A @ -48 V DC	2.5 A @ -48 V DC
	0.4 A @ 200 V AC	0.5 A @ 200 V AC	0.6 A @ 200 V AC	0.7 A @ 200 V AC	--	--	--
Maximum power consumption	74 W	88 W	118 W	130 W	69 W	80 W	118 W
Maximum heat emission	267 kJ/h	317 kJ/h	425 kJ/h	468 kJ/h	249 kJ/h	288 kJ/h	425 kJ/h

*1: Excluding the dimensions of connectors.

*2: Weight of the main device only. The weights of cables, rack fixtures, memory cards, and transceivers are excluded.

*3: The power supply cable bundled with the main device supports only 100 V AC.

Table 2-2 General installation conditions of AX3630S series main devices (AC, AC (PoE), or DC power models)

Item	Model Name				
	AX3630S -24T	AX3630S -24T2X	AX3630S -24P	AX3630S -24TD	AX3630S -24T2XD
Dimensions (W × D × H) ^{*1}	445 × 380 × 43 mm		445 × 490 × 43 mm	445 × 380 × 43 mm	
Weight ^{*2}	5 kg or less		8 kg or less	5 kg or less	
Input voltage	Rated	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}		Single phase 100 to 120 V AC	
	Variation range	90 to 127.2 V AC, 180 to 254.4 V AC		90 to 127.2 V AC	
Frequency	50/60 ± 3 Hz			--	
Maximum input current	0.8 A @ 100 V AC	0.9 A @ 100 V AC	5.8 A @ 100 V AC	1.5 A @ -48 V DC	1.8 A @ -48 V DC
	0.4 A @ 200 V AC	0.5 A @ 200 V AC	--	--	--
Maximum power consumption	75 W	89 W	580 W	70 W	82 W
Maximum heat emission	270 kJ/h	321 kJ/h	757 kJ/h ^{*4}	252 kJ/h	296 kJ/h

*1: Excluding the dimensions of connectors.

*2: Weight of the main device only. The weights of cables, rack fixtures, memory cards, and transceivers are excluded.

*3: The power supply cable bundled with the main device supports only 100 V AC.

*4: Heat emission of the main device only.

Table 2-3 General installation conditions of AX3630S series main devices (power redundancy models)

Item		Model Name					
		AX3630S-24S2XW		AX3630S-48TW		AX3630S-48T2XW	
		PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted
Dimensions (W × D × H) ^{*1}		445 × 440 × 43 mm					
Weight ^{*2}		9 kg or less					
Input voltage	Rated	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC
	Variation range	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC
Frequency		50/60 ± 3 Hz	--	50/60 ± 3 Hz	--	50/60 ± 3 Hz	--
Maximum input current		1.0 A @ 100 V AC	1.8 A @ -48 V DC	1.4 A @ 100 V AC	2.6 A @ -48 V DC	1.5 A @ 100 V AC	2.8 A @ -48 V DC
		0.5 A @ 200 V AC	--	0.7 A @ 200 V AC	--	0.8 A @ 200 V AC	--
Maximum power consumption		92 W	85 W	134 W	124 W	143 W	133 W
Maximum heat emission		332 kJ/h	306 kJ/h	483 kJ/h	447 kJ/h	515 kJ/h	479 kJ/h

*1: Excluding the dimensions of connectors and handles.

*2: Weight of the main device with two power units. The weights of cables, rack fixtures, memory cards, and transceivers are excluded.

*3: The power supply cable bundled with the main device supports only 100 V AC.

Table 2-5 General installation conditions of AX3640S series main devices (power redundancy models 1 of 2)

Item		Model Name					
		AX3640S-24TW		AX3640S-24T2XW		AX3640S-48TW	
		PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted
Dimensions (W × D × H) ^{*1}		445 × 440 × 43 mm					
Weight ^{*2}		9 kg or less					
Input voltage	Rated	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC
	Variation range	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC
Frequency		50/60 ± 3 Hz	--	50/60 ± 3 Hz	--	50/60 ± 3 Hz	--
Maximum input current		0.9 A @ 100 V AC	1.6 A @ -48 V DC	1.0 A @ 100 V AC	1.9 A @ -48 V DC	1.4 A @ 100 V AC	2.7 A @ -48 V DC
		0.5 A @ 200 V AC	--	0.5 A @ 200 V AC	--	0.7 A @ 200 V AC	--
Maximum power consumption		85 W	75 W	100 W	90 W	135 W	125 W
Maximum heat emission		306 kJ/h	270 kJ/h	360 kJ/h	324 kJ/h	486 kJ/h	450 kJ/h

*1: Excluding the dimensions of connectors.

*2: Weight of the main device with two power units. The weights of cables, rack fixtures, memory cards, and transceivers are excluded.

*3: The power supply cable bundled with the main device supports only 100 V AC.

Table 2-6 General installation conditions of AX3640S series main devices (power redundancy models 2 of 2)

Item		Model Name					
		AX3640S-48T2XW		AX3640S-24SW		AX3640S-24S2XW	
		PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted	PS-A01 mounted	PS-D01 mounted
Dimensions (W × D × H) ^{*1}		445 × 440 × 43 mm					
Weight ^{*2}		9 kg or less					
Input voltage	Rated	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC	Single phase 100 to 120 V AC, 200 to 240 V AC ^{*3}	-48 V DC
	Variation range	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC	90 to 127.2 V AC, 180 to 254.4 V AC	-40 to -57 V DC
Frequency		50/60 ± 3 Hz	--	50/60 ± 3 Hz	--	50/60 ± 3 Hz	--
Maximum input current		1.5 A @ 100 V AC	2.9 A @ -48 V DC	0.9 A @ 100 V AC	1.6 A @ -48 V DC	1.0 A @ 100 V AC	1.9 A @ -48 V DC
		0.8 A @ 200 V AC	--	0.5 A @ 200 V AC	--	0.5 A @ 200 V AC	--
Maximum power consumption		145 W	135 W	85 W	75 W	100 W	90 W
Maximum heat emission		522 kJ/h	486 kJ/h	306 kJ/h	270 kJ/h	360 kJ/h	324 kJ/h

*1: Excluding the dimensions of connectors.

*2: Weight of the main device with two power units. The weights of cables, rack fixtures, memory cards, and transceivers are excluded.

*3: The power supply cable bundled with the main device supports only 100 V AC.

Table 2-7 General installation conditions of external power units (EPUs)

Item		Model Name	
		EPU-A	EPU-B
Dimensions (W × D × H) ^{*1}		445 × 440 × 43 mm	
Weight ^{*2}		12 kg or less	9 kg or less
Input voltage	Rated	Single phase 100 to 120 V AC	
	Variation range	90 to 127.2 V AC	
Frequency		50/60 ± 3 Hz	
Maximum input current		10.5 A @ 100 V AC	15.0 A @ 100 V AC
Maximum power consumption		1,050 W	1,500 W
Maximum heat emission ^{*3}		1,534 kJ/h	1,008 kJ/h

*1: Excluding the dimensions of connectors and handles.

*2: Weight of the unit with the maximum number of power supply modules. The weights of cables and rack fixtures are excluded.

*3: Heat emission of the main device only.

3 Preparation of Interface Cables and Terminals

3.1 Connecting Interface Cables and Terminals

Table 3-1 on pages 98 and 99 is corrected as follows:

Corrections

Table 3-1 Interface cables and terminal connection cables

Port/Slot	Transceiver	Interface	Cable	Connector
10/100/1000BASE-T port (PoE not supported)	--	10BASE-T	UTP cable (Category 3 or higher)	RJ45 connector
		100BASE-TX	UTP cable (Category 5 or higher)	
		1000BASE-T	UTP cable (Enhanced Category 5 or higher)	
10/100/1000BASE-T port (PoE supported)	--	10BASE-T	UTP cable (Category 5 or higher)	RJ45 connector
		100BASE-TX	UTP cable (Category 5 or higher)	
		1000BASE-T	UTP cable (Enhanced Category 5 or higher)	
SFP Slot	SFP-T (T) (PoE not supported)	10BASE-T	UTP cable (Category 5 or higher)	RJ45 connector
		100BASE-TX		
		1000BASE-T		
	SFP-FX (T)	100BASE-FX	Multiple-terminal mode optical fiber (core/cladding diameter = 50 μm/125 μm)	LC duplex connector
			Multiple-terminal mode optical fiber (core/cladding diameter = 62.5 μm/125 μm)	
	SFP-SX (T)	1000BASE-SX	Multiple-terminal mode optical fiber (core/cladding diameter = 50 μm/125 μm)	LC duplex connector
			Multiple-terminal mode optical fiber (core/cladding diameter = 62.5 μm/125 μm)	
	SFP-SX2 (T)	1000BASE-SX2	Multiple-terminal mode optical fiber (core/cladding diameter = 50 μm/125 μm)	LC duplex connector
			Multiple-terminal mode optical fiber (core/cladding diameter = 62.5 μm/125 μm)	
	SFP-LX (T)	1000BASE-LX	Multiple-terminal mode optical fiber* ¹ (core/cladding diameter = 50 μm/125 μm)	LC duplex connector
			Multiple-terminal mode optical fiber* ¹ (core/cladding diameter = 62.5 μm/125 μm)	
			Single-terminal mode optical fiber (core/cladding diameter = 10 μm/125 μm)	
	SFP-LH (T)	1000BASE-LH	Single-terminal mode optical fiber (core/cladding diameter = 10 μm/125 μm)	LC duplex connector
Single-terminal mode (DSF) optical fiber (core/cladding diameter = 8 μm/125 μm)				

Port/Slot	Transceiver	Interface	Cable	Connector
SFP Slot	SFP-LHB (T)	1000BASE-LHB	Single-terminal mode optical fiber (core/cladding diameter = 10 μm/125 μm)	
			Single-terminal mode (DSF) optical fiber (core/cladding diameter = 8 μm/125 μm)	
	SFP-BX1U (T)	1000BASE-BX10-U	Single-terminal mode optical fiber (core/cladding diameter = 10 μm/125 μm)	LC simplex connector
	SFP-BX1D (T)	1000BASE-BX10-D		
	SFP-BX4U (T)	1000BASE-BX40-U		
SFP-BX4D (T)	1000BASE-BX40-D			
XFP Slot	XFP-SR (T)	10GBASE-SR	Multiple-terminal mode optical fiber (core/cladding diameter = 50 μm/125 μm)	LC duplex connector
			Multiple-terminal mode optical fiber (core/cladding diameter = 62.5 μm/125 μm)	
	XFP-LR (T)	10GBASE-LR	Single-terminal mode optical fiber (core/cladding diameter = 10 μm/125 μm)	
	XFP-ER (T)	10GBASE-ER		
	XFP-ZR (T)	10GBASE-ZR		
CONSOLE Port	--	RS-232C	RS-232C crossover cable	D-sub (9-pin)

*1: Some kinds of multiple-terminal mode optical fiber might increase BER (bit error rate) when used with 1000BASE-LX.
In such cases, mode-conditioning patch cords can clear the communication problem.

3.2 Network Interface Specifications

3.2.1a is added on page 101.

Addition

3.2.1a 100BASE-FX

(1) Mode settings for the port

Either of the following modes can be specified for the Ethernet 100BASE-FX port. The factory default setting is full duplex (fixed).

- 100BASE-FX full duplex (fixed)
- 100BASE-FX half duplex (fixed)

NOTE Auto-negotiation is not supported.

(2) Flow control

This function is enabled when the connection is full duplex.

4 Installation of the Components

4.8 Inserting and Removing SFPs

4.8.2 Inserting or Removing SFP-SX (T)/SFP-SX2 (T)/SFP-LX (T)/SFP-LH (T)/SFP-BX1U (T)/SFP-BX1D (T)/SFP-BX4U (T)/SFP-BX4D (T)

The section title on page 141 is corrected as follows:

Correction

4.8.2 Inserting and Removing SFP-FX (T)/SFP-SX (T)/SFP-SX2 (T)/SFP-LX (T)/SFP-LH (T)/SFP-LHB (T)/SFP-BX1U (T)/SFP-BX1D (T)/SFP-BX4U (T)/SFP-BX4D (T)

4.9 Inserting and Removing XFPs

The following note is added after the text on page 143:

Addition

NOTE The following procedures describe how to mount and dismount the type-A module.
The same procedures apply to the type-B module.

4.12 Powering the Main Device On and Off

4.12.1 AC Power and AC (PoE) Models

The following note is added to the end of (1) *Powering on* on page 148:

Addition

NOTE

If the device has been left unused for a long period (one month or more), when it is powered on for the first time thereafter, the ST1 LED might light up red and the device might not start up.
In this case, turn off the device, and then turn it on again.

4.12.2 DC Models

The following note is added to the end of (1) *Powering on* on page 149:

Addition

NOTE

If the device has been left unused for a long period (one month or more), when it is powered on for the first time thereafter, the ST1 LED might light up red and the device might not start up.
In this case, turn off the device, and then turn it on again.

4.12.3 Power Redundancy Models

The following note is added to the end of (1) *Powering on* on page 150:

[Addition]

NOTE

If the device has been left unused for a long period (one month or more), when it is powered on for the first time thereafter, the ST1 LED might light up red and the device might not start up.
In this case, turn off the device, and then turn it on again.

Appendix

Appendix B Physical Specifications of Network Interfaces

Appendix B.1a is added on page 181.

Addition

Appendix B.1a Ethernet 100BASE-FX

Table B-3a Physical Specifications for 100BASE-FX

Item		Physical Specifications	
Cable type		Multiple-terminal mode	
Core/cladding diameter		50 μm /125 μm	62.5 μm /125 μm
Transmission bandwidth		500 MHz·km	500 MHz·km
Laser center wavelength		1.270 to 1.380 μm	
Optical transmission power (mean)		-23.0 to -14.0 dBm	-20.0 to -14.0 dBm
Optical reception power (mean)		-31.0 to -14.0 dBm	-31.0 to -14.0 dBm
Optical transmission loss (max)		8.0 dBm	11.0 dBm
Transmission distance	Full-duplex communication	2 m to 2 km	
	Half-duplex communication	2 to 412 m	

Appendix B.2 Ethernet 1000BASE-X Interface

Table B-7a is added on page 183.

Addition

Table B-7a Physical Specifications for 1000BASE-LHB

Item		Physical Specifications	
Cable type		Single-terminal mode	Single-terminal mode (DSF)
Core/cladding diameter		10 μm /125 μm	8 μm /125 μm
Laser center wavelength		1.480 to 1.580 μm	
Optical transmission power (mean)		+2.0 to +7.0 dBm	
Optical reception power (mean)		-34.0 to -9.0 dBm	
Optical transmission loss (max)		36.0 dB ^{*1}	
Transmission distance		2 m to 100 km ^{*2}	2 m to 100 km

*1: When optical transmission loss is 16.0 dB or less, use an optical attenuator to adjust the loss.

*2: For transmission over a 100 km distance, use an optical fiber with dispersion of 20 ps/nm·km or less.