

Datasheet

ALAXALA compact gigabit layer2 switch

AX2300S Series

1. Outline

ALAXALA Gigabit Layer 2 Switch Series, AX2300S, is available in seven models.

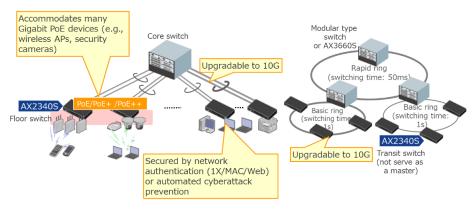




Figure 7 AX2340S-16P8MP2X

The AX2300S Series are intelligent edge switches excelling in TCO reduction that realize secure, safe, comfortable, and convenient networking with enhanced capabilities and capacities of 10G uplink, PoE power supply (among the highest in the industry), operation automation, failure monitoring, and anti-tampering functions.

It upgrades uplink bandwidth, enhances PoE feeding capacity, and executes script language and **Secure Boot** to meet various market needs.



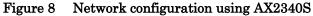




Table 1	Applicable	positions
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Applicable position		Points		
Campus network	Core switch	 Option license to upgrade 1G uplink (4 ports) to 10G uplink (4 ports) Authentication (triple authentication, multistep authentication) PoE capacity of max. 815W capable of connecting many WiFi access points and high-performance network cameras. Telemetry function that enables real-time transmission of mirror data periodically or when an event occurs Settings automated by Python or Ansible Secure Boot to check and start up the device / OS after verifying that they had not been tampered 		
Ring network	Transit switch	 Option license to upgrade 1G uplink (4 ports) to 10G uplink (4 ports) Stable operation and high availability (Autonomous Extensible Ring Protocol(transit node)) TCO reduction (power consumption, operation manageability) Compact 1U size body 		



2. Features

2.1 Features of the AX2300S series

(1) Uplink performance of max.40Gbps

- •By applying the uplink 10G option license, you can upgrade 1G uplink (4 port) to 10G (10GBASE-R SFP + 4 ports). 10G link aggregation expands bandwidth up to 40G.
- •Operable as a transit switch for 10G rings, and can configure a highly reliable broadband backbone.

(2) Multi-Gigabit Ethernet (mGig)

•Supports 100BASE-TX/1000BASE-T/2.5GBASE-T ports, which allows you to accommodate high-speed wireless LAN devices while still using your system with a twisted-pair cable (UTP).

(3) Industry-leading PoE capacity

•**PoE/PoE+/PoE ++** is supported, and 15W/30W/60W power can be supplied per port. The power of the entire system is 815W (the highest in the industry) *1.

·Peak shift power supply function

Time-shifting power supply to PoE ports ensures stable power supply to the power receiving equipment and prevents unstable communication during recovery from a power failure.

*1: Industry's highest level achieved by a 1U box-type switch through its main body only (according to ALAXALA's research).

(4) Easy-to-operate function that greatly reduces the workload of network managers •Easy operation/automation

Supports various tools to automate operations. The advanced script language **Python** monitors logs and timers and executes commands when events occur, and the configuration management tool **Ansible** automatically performs routine processes and settings. In addition, **MC operation mode** reduces the burden of device replacement and restoration by synchronizing the edge switch's software / device data with a switch memory card in advance.

·Zero Touch Provisioning

AX-Network Manager (operation control product) eases the replacement of an edge switch for maintenance and failure recvery. If only the name of the device is set on the substitute machine, you can automatically set the preset data and software without inputting commands.

(5) Cyberattack-resistant security

\cdot Secure Boot

Confirms that the hardware and software have not been tampered with. Each time the device is started, the system prevents unauthorized access and information theft/leakage, which may be caused through a backdoor in the system.

·Zero Trust Security

Realizes zero-trust security of campus networks (e.g., automatically detecting and blocking malware infected terminals, and detecting anomalies such as cyberattacks) with various security solutions: access control by network authentication, automatic cyberattack prevention, network visualization, failure detection solution, etc.

·Network authentication

IEEE802.1X, MAC authentication, and Web-based authentication are supported and required to connect to the network. In addition, multi-step authentication, which allows access only when permitted by a combination of terminal authentication and user authentication, is supported. Furthermore, fine-grained access control can be achieved by applying the dynamic VLAN (option for network authentication) according to the system configuration.



(6) Superior network management, maintenance and operation

·USB memory card

USB memory card can be used to easily back up the configuration and collect error messages.

$\cdot MC$ operation mode

By inserting USB memory card into AX2340S, the software and device information is saved. After that, if configuration settings are changed, the changes are saved automatically. In addition, when a factory-shipped AX2340S is started with USB memory card inserted therein, the device starts with the previously saved software and device information (including the configuration), and the transition time from the active device to the backup device can be shortened.

(7) Communication quality assurance through QoS

 $\cdot High\text{-}performance hardware\text{-}based \ QoS$

•Variety of QoS control functions

L2-QoS (IEEE802.1p, bandwidth control, priority control, discard control, etc.),

IP-QoS (Diff-Serv, bandwidth control, priority control, discard control, etc.)

(8) Compactness and reduced environmental impact

•Compact body

1U-height device capable of accommodating up to 48 ports of 10BASE-T/100BASE-TX/1000BASE-T.

•Reduces environmental impact by complying with RoHS.

(9) Telemetry function

$\cdot \mathrm{Monitoring}$ and automation to reduce the burden on network managers

Supports the PUSH type telemetry function \star_2 , which sends a large amount of data at one time.

*2: To be supported in the future.

(10) Fanless design and environmental resistance

·Fanless (AX2340S-24T4X/-24TH4X/-24PH4X)

In addition to reducing the problems caused by dust sucked into the device, a quiet, noisefree office environment is realized.

$\cdot \textbf{Improved thermal conditions for fanless devices} (AX2340S \cdot 24TH4X / \cdot 24PH4X)$

-Achieves operation under severe temperature conditions -AX2340S-24PH4X supports PoE



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3.1 Switch specifications

			Specif	fications			
				AX2340S-24T4X	AX2340S-24TH4X	AX2340S-48T4X	
Max. switching capaci				1	32	180	
Packet processing	Max. packe	et forwardi	ng rate				
performance (Mpacket/s) (Note 1)				9	133.9		
	10GBASE-	SR/LR/ER/	BR/CU (SFP+)	4 (N	lote 2)	4 (Note 2)	
	1000BASE	-SX/LX/LH	/BX (SFP)	2+4 (Note 2)	2+4 (Note 2)	
		ГХ/1000ВА					
Network interface	T/2.5GBAS				-	-	
	[PoE/PoE+		T MDD)		24	10	
		OBASE-T (24	48	
	[PoE/PoE+	0BASE-T (1	UTP)		-	-	
Amount of memory in	F 1				2048		
Number of memory ca		, 		US	B Type-A storage port	x 1	
Redundancy					-		
Cooling system				Fanless	Fanless	Fan	
Power supply	Voltage	Rated volt	age (V)	AC	100 to 120 / AC200 to	240	
conditions			n range (V)	AG	C90 to 132 / AC180 to	264	
		(Note 3)					
	Frequency		<u>`````````````````````````````````````</u>		50 / 60		
	Max. input	current (A	.)		AC100V AC200V	0.9@AC100V 0.5@AC200V	
	Max appar	ront nowor	(VA)		90		
	Max. apparent power (VA) Max. power consumption (W)			<u> </u>		80	
	PoE capacity (W)				-		
	AC wall ou			Ground	ding type: 2-pole plug	(Note 4)	
Heating value (kJ/h)					.62	288	
Noise				-	-	51 dB or less	
Equipment conditions	Dimensions: W x D x H (mm) (height: U)				440 x 350 x 44 (1U)	• 	
	Weight (kg)		4.0	4.2	4.5	
		power supp					
	Energy effi	iciency (W/((Gbit/s))	Catego	Category A 0.7		
Energy saving	M CC /	• •	· · ·	(reference	(reference value 1.6)		
efficiency measured according to Energy	Max. effect (Gbit/s)	ive transm	ission rate		90		
Conservation Act	Transmissi	ion rate	10Gbit/s		4	4	
(Note: 5)	and port co		2.5Gbit/s		•	-	
	-		1Gbit/s	26		50	
Environmental	Temperatu	Allowable	operating range	0° C to 45° C	-10℃ to 50℃	0° C to 50° C	
conditions	re			(Note 6)	(0°C to 50°C when		
					starting up)		
					(Note 6) (Note 7)		
			ting (when	-10° C to 50° C			
		powered off) Storage/transportation		-25°C to 65°C			
	temperature						
		Relative Allowable operating ran					
	humidity Non-operating (when powered off) Storage/transportation temperature		8% to 90% (non-condensing)				
				5% to 90% (non-condensing)			
	Floating du	ust		Floating dust of about 10 microns or less: 0.15mg/m ³			
	Vibration (m/s ²)			2.45 or less			
Applied standards	EMI				VCCI Class A		
	Harmonic of	current		IEC 61000-3-2			



EMS	EN55035
Safety standards	IEC62368-1 compliant
Related laws and regulations	Electrical Appliance and Material Safety Law (Power Cables)



Table 3 Switch specifications (2/2)

				Specifications			
				AX2340S-24P4X	AX2340S-24PH4X	AX2340S-48P4X	AX2340S- 16P8MP2X
Max. switching capa				1:	32	180	112
Packet processing performance (Mpacket/s)(Note 1)	Max. packet forwarding rate			98.2		133.9	83.3
	10GBASE-SR/LR/ER/BR/CU (SFP+)			4 (No	ote 2)	4 (Note 2)	2 (Note 2)
	1000BASE-SI	X/LX/LH/B	X (SFP)	2+4 (1	Note 2)	2+4 (Note 2)	2 (Note 2)
Network interface	T (UTP) [PoE	/PoE+/PoE			-	-	8 (Note 8)
	10/100/1000BASE-T (UTP)				-	-	-
	10/100/1000E [PoE/PoE+]		'P)	24 (Note 9)	24 (Note 10)	48 (Note 11)	16 (Note 8)
Amount of memory i)			20		
Number of memory	cards slots				USB Type-A st	torage port x 1	
Redundancy							
Cooling system	¥7.1.	D 1 1	(1.1)	Fan	Fanless	Fan	Fan
Power supply conditions	Voltage	Rated volt:			AC100 to 120		
conditions	D (U	(Note 3)	n range (V)		AC90 to 132 /		
	Frequency (H			8.5@AC100V	4.2@AC100V	60 12@AC100V	12@AC100V
		Max. input current (A)			2.1@AC200V	6.5@AC200V	6.5@AC200V
	Max. apparer			850 700	420 360	1250 1100	1250 1100
		Max. power consumption (W) PoE capacity (W)			250 per device (Note 10)	785 per device (Note 11)	815 per device (Note 8)
	AC wall outlet			(Note 9)	Grounding type: 2		(INOLE O)
Heating value (kJ/h)				594 (Note 12)	396 (Note 12)	1134 (Note 12)	1026 (Note 12)
Noise	·			38 to 70 dB or less			50 to 72 dB or less
Equipment conditions	Dimensions: ` (height: U)	WxDxH	(mm)	440 x 350 x 44 (1U)			
	Weight (kg) (including power supply units)			5.0	5.3	5.6	5.2
Energy saving	Energy efficie	ency (W/(Gł	oit/s))	Category A 0.7 (reference value: 2.0)	Category A 0.6 (reference value: 1.7)	Category A 0.9 (reference value: 2.1)	Category A 1.1 (reference value: 3.0)
efficiency measured	Max. effective	e transmiss	ion rate (Gbit/s)		36	90	56
according to Energy					4	4	2
			2.5Gbit/s		-	-	8
Environmental conditions	Temperature	Allowable	<u>1Gbit/s</u> operating range	0°C to 50°C	26 -10°C to 50°C (0°C to 50°C when starting up) (Note 6) (Note 7)	50 0°C ta	<u>16</u> 50℃
		Non-operating (when powered off)		-10°C to 50°C			
		Storage/transportation temperature		-25°C to 65°C			
	Relative		operating range		10% to 90% (no	on-condensing)	
			ting (when f)	8% to 90% (non-condensing)			
	Storage/transportation temperature			$5\%{\sim}90\%$ (non-condensing)			
	Floating dust			Floating dust of about 10 microns or less: 0.15mg/m ³			
	Vibration (m/	s^{2})					
11	EMI				VCCI (
	Harmonic cui	rrent		IEC 61000-3-2			
	EMS Safety standa	rde		EN55035 IEC62368-1 compliant			
			tions	Electrical A			wer Cables)
	Related laws and regulations			Electrical Appliance and Material Safety Law (Power Cables)			



[Notes for Table 2 and Table 3]

Note 1: The measurement conditions are as follows.

- •Physical Medium: 1000BASE-T,1000BASE-X
 - •Packet type: Layer 2 relay, no flooding
 - •Packet Length: 64 bytes
 - ·QoS, filtering: not configured

Note 2 : These ports are shared by 10GBASE-R(SFP+) and 1000BASE-X(SFP). You cannot use 10GBASE-R(SFP+) and 1000BASE-X(SFP) simultaneously. An uplink 10G option license is required if you want to use 10GBASE-R or a direct attach cable. Note that AX2340S-16P8MP2X does not require an uplink 10G optional license. Direct attach cables can also be used on two ports.

- Note 3 : The range to guarantee normal operation.
- Note 4 : The AC100V power cord attached to the equipment. The AC200V power cord is available as a common option. For the power supply connector form of the AC200V power supply cable, refer to the Hardware Instruction Manual.
- Note 5: Values are based on the measurement method specified by the Energy Saving Law.
- Note 6 : The upper limit is 40°C when using a SFPP-ER.
- Note 7 : The upper limit is 45°C when using a SFPP-SR/LR/BR.
- Note 8 : When the power of the power receiving equipment is Class6 (60W), the maximum number of ports that can be fed simultaneously is 8. The remaining 16 ports can be powered by Class3 (15.4W) or Class4 (30W).
- Note 9 : When the power of the power receiving equipment is Class3 (15.4W), the maximum number of ports that can be fed simultaneously is 24. For Class4 (30.0W), the maximum port count is 17,.
- Note 10 : When the power of the power receiving equipment is Class3 (15.4W), the maximum number of ports that can be fed simultaneously is 16. For Class4 (30.0W), the maximum port count is 8.
- Note 11 : When the power of the power receiving equipment is Class3(15.4W), the maximum number of ports that can be fed simultaneously is 48. For Class4 (30.0W), the maximum port count is 26.
- Note 12 : Heating value of this device only. This does not include the calorific value of PD (power receiving device).



3.2 Function list

Table 4 lists the supported functions and their standards.

Table 4 AX2300S ser	ries functions
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Category		Function	Compliance standards	Remarks
LAN	Ethernet	10BASE-T/100BASE-TX/	IEEE802.3 IEEE802.3u	
		1000BASE-T/2.5GBASE-T	IEEE802.3ab IEEE802.3bz	
		10BASE-T/100BASE-TX/	IEEE802.3af	
		1000BASE-T/2.5GBASE-T	IEEE802.3at	
		(PoE/PoE+/PoE++)	IEEE802.3bt	
		1000BASE-X(SX/LX)	IEEE802.3z	
		1000BASE-X(SX/LX) 1000BASE-X(BX)	IEEE802.3ah	
			ILLE802.3an	
		1000BASE-X(LH) 10GBASE-R(SR/LR/ER)(SFP+)	— IEEE000.0	
		10GBASE-R(SR/LR/ER)(SFP+)	IEEE802.3ae	Option license OP-ULTG is
				needed.
		10GBASE-R(BR)(SFP+)	-	Option license OP-ULTG is needed.
		10GBASE-CU(SFP+)		Option license
		IUGDASE CU(SFP+)		OP-ULTG is needed.
		Flow control	IEEE802.3x	neeueu.
		Link debounce/link up debounce		
	Auto negotiation	10BASE-T/100BASE-TX/		
	extension	100BASE-1/100BASE-1 <i>X</i> / 1000BASE-T downshift	-	
	PoE time-shiftir Link aggregatio		- IEEE802.3ad (IEEE802.1AX)	
	Jumbo frame		-	
Layer 2	Transparent bri	dao		
function	VLAN	Port VLAN	IEEE802.1Q	
function	V LIAIN	VLAN tagging	IEEE802.1Q	
		Protocol VLAN	IEEE802.1Q	
			-L	
		MAC VLAN Tag translation	-L -	
			-	
	X7T ANT / I'	VLAN debounce	-	
	VLAN tunneling			
	Inter-port relay			
	Spanning tree	STP	IEEE802.1D IEEE802.1t	
		RSTP	IEEE802.1w	
		MSTP	IEEE802.1s	
		PVST+	-	
		BPDU filter	-	
		Loop guard	-	
		Root guard	-	
	Autonomous Extensible	Transut node	-	
	Ring Protocol			
	Uplink redunda		- -	
	DHCP snooping		RFC2131	
	IGMP / MLD	IGMPv1 snooping	RFC4541	
	snooping	IGMPv2 snooping	RFC2236	
		IGMPv3 snooping	RFC2710	
		IGMP snooping Fast-Leave feature	RFC3376	
		IGMP snooping multicast router port auto-		
		learning	4	
		MLDv1 snooping	4	
		MLDv2 snooping		
	Storm control		-	
	IEEE802.3ah/U		IEEE802.3ah	(Note 1)
	L2 loop detectio		-	
	CFM (Connectiv	vity Fault Management) (Ether OAM)	IEEE802.1ag	
	LLDP		IEEE Std 802.1AB-2009	
			IEEE802.1AB Draft 6	
	Flush Request f	rame (GSRP) reception	-	
		ame (uplink redundant) reception	-	

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Category		Fu	nction	Compliance	e standards	Remarks
Layer 3	IPv4	IP, ARP, IC	CMP	RFC791	RFC792	
function				RFC826	RFC922	
				RFC950	RFC1027	
				RFC1122	RFC1519	
				RFC1812	RFC2644	
	IPv4 DHCP serv	er		RFC2131	RFC2132	
	II VI DIIOI SOIV	01		RFC2136	RFC3046	
				RFC4702	111 00010	
	IPv6	IPv6, NDF	DICMP	RFC2474	RFC2710	
	11 V0	11 v0, ND1	, ICIVII VO	RFC4291	RFC4443	
				RFC4291 RFC4861	RFC4862	
				RFC8200	NF U4002	
Additional	Filter	Flow	Layer 2 conditions	-		
	ritter	detection				
functions		detection	Layer 3 consitions (IPv4)			
			Layer 3 conditions (IPv6)			
			Layer 4 conditions			
	QoS / Diff-Serv	Flow	Layer 2 conditions			
		detection	Layer 3 conditions (IPv4)			
			Layer 3 conditions (IPv6)			
			Layer 4 consitions]		
		Marker	User priority rewrite	-		
			DSCP marking	RFC2474	RFC2475	
			DSCF marking			
				RFC2597	RFC3246	
				RFC3260	DEGaala	
		Prioritiz	CoS mapping	RFC2597	RFC3246	
		ation	Output priority control	RFC3260		
		Shaper	PQ	-		
			PQ+RR	-		Possible by
						setting the
						weights equally
			PQ+DRR	-		DRR: Weighted
						(bytes) round
						robin
		Tail drop		-		
	Layer 2	IEEE	Fixed VLAN	IEEE802.1X		
	authentication	802.1X	(per-port authentication)	RFC2865	RFC2866	
			T. F. S.	RFC2868	RFC2869	
				RFC3162	RFC3579	
			Dynamic VLAN	RFC3580	RFC3748	
		337.1			111 001 10	
		Web	Fixed VLAN	-		
		authenti	URL redirection	_		
		cation	Keep Alive			
			Drmomio VI AN			1
			Dynamic VLAN			
			URL redirection	_		
		MAC	URL redirection	-		
		MAC	URL redirection Fixed VLAN	-		
		authenti	URL redirection	-		
		authenti cation	URL redirection Fixed VLAN Dynamic VLAN			
		authenti cation Common	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for			
		authenti cation	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication			
		authenti cation Common	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for			
		authenti cation Common features	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication			
		authenti cation Common features	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for			
		authenti cation Common features Multi-step	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication	-		
	Port mirroring	authenti cation Common features Multi-step Local	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication	-		
	Port mirroring	authenti cation Common features Multi-step Local	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication	-		
Reliability	Port mirroring Environmental r	authenti cation Common features Multi-step Local 802.1Q Ta	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication	-		
Reliability		authenti cation Common features Multi-step Local 802.1Q Ta	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication			
Reliability	Environmental r Self-diagnosis	authenti cation Common features Multi-step Local 802.1Q Ta	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication g assignment			
Reliability	Environmental r Self-diagnosis Gigabit switch	authenti cation Common features Multi-step Local 802.1Q Ta nonitor	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication g assignment			
Reliability	Environmental r Self-diagnosis	authenti cation Common features Multi-step Local 802.1Q Ta nonitor	URL redirection Fixed VLAN Dynamic VLAN IPv4 access list for authentication MAC access list for authentication authentication g assignment			

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Category		Fu	nction		Complian	ce standards	Remarks
Network	SNMP (v1/v2c/v3				RFC1155	RFC1157	Tromat Ko
managem	010111 (01/020/08	,,			RFC1901	RFC1902	
ent					RFC1903	RFC1904	
ent					RFC1905	RFC1904	
					RFC1907	RFC1908	
					RFC2578	RFC2579	
					RFC2578 RFC2580	RFC3410	
						RFC3410 RFC3412	
					RFC3411		
					RFC3413	RFC3414	
					RFC3415	RFC3416	
					RFC3417	RFC3418	
					RFC3584		
	MIB-II, RMON,	IP Forwardi	ng MIB,	Interface MIB	RFC1158	RFC1213	
					RFC1354	m RFC1757	
					RFC2233		
	dot1dBridge MII	3			RFC1493		RFC2674
	Ethernet MIB				RFC1643		RFC3621
	CFM-MIB				IEEE802.1a	D.	
	LLDP MIB				IEEE Std 80		
	LLDP-EXT-DOT	1-V9-MIR			IEEE Std 80		
	sFlow	1 V 2 WIID				2.1AD 2007	
			· c	1.	RFC3176		
	Private MIB	Statistical			-		+
			L2 (VLAN, FDB) data				
				y protocol (LLDP) data	-		
		Filter/QoS			-		
		System da	ta (start	up information, login)	-		
		Device data			-		
		sFlow data			-		
	SYSLOG	SI IOW data	ı		RFC5424		
		4 11			- hr03424		
<u> </u>	AX-Security-Con		1)		-		
Operation	Operation	Serial (cor	isole)		-		
&	terminal device						
	connection						
managem		TELNET, FTP, TFTP			RFC854	RFC855	
ent					RFC959		
	Configuration	CLI			_		
	Security	Login authentication			RFC2865	RFC2866	RADIUS
		(password, host address, RADIUS,			RFC2869	RFC3162	compliant
		TACACS+			RFC3579	RFC3580	standards
			/		RFC3748	111 00000	oturiaarao
					draft-grant-t	acacs-02-tyt	TACACS+
					uran grant t	acaes 02 txt	compliant
							standards
		COLL	x7 ·	1 (11 + 2)	1 6 1	1 / 1	standards
		SSH	vers10	n 1 (Note 2)		-ssh-protocol-	
					00.txt		
			Versio	n 2	RFC4251	RFC4252	
					RFC4253	RFC4254	
					RFC4344	RFC4419	
					RFC4716	RFC5656	
					RFC6668	RFC8268	
					draft-ietf-sec	sh-filexfer-13	
	Collection of	Device/int	erface st	atus display	-		
	management	Operation			-		
	information	Statistics			-		
	Advanced	Basic func		1111A	+		+
					+		
	script (Python)	Command			-		+
		Resident s		1	-		
		Event mor	nitoring	System message	-		
		function monitoring Timer monitoring		monitoring			
				-			
		Applet function Event startup script			-		
		Applet fur			-		1
	MC operation m				-		
	MC operation mo	ode			-		
	Zero touch provis	ode			-		
	Zero touch provis NTP	ode sioning			- RFC5905		
	Zero touch provis NTP Commandless m	ode sioning aintenance			- RFC5905 -		
	Zero touch provis NTP Commandless m Energy saving	ode sioning aintenance Port powe		EEE	-	Z	
	Zero touch provis NTP Commandless m	ode sioning aintenance		(Energy-Efficient	- RFC5905 -	Z	
	Zero touch provis NTP Commandless m Energy saving	ode sioning aintenance Port powe			- RFC5905 -	Z	

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Category	Function		Compliance standards	Remarks
	Long life	Temperature log	-	
	solution	Fan control	-	
	Secure boot		-	

[Legend] - : No compliant standard Note 1: Only Information OAMPDU is supported. Note 2: For software delivered after 2022, SSH Version 1 may be discontinued.



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[Issue]

November 2022 (Ver.2.2 1st edition)

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