NetEngine AR Hardware Description

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SRU-100H (SRU-100H,service and router unit 100H, 11*GE (10*GE combo, 1*GE copper), 2*10GE SFP+, 1*USB)
SRU-100HH (02312XRX: SRU-100HH,Service and Router Unit 100HH, 14*10GE(SFP+), 8*GE Copper, 1*USB2.0)
SRU-100HH (02312XRX-001: Service and Router Unit 100HH, 14*10GE(SFP+), 8*GE Copper, 1*USB2.0)
SRU-200H (SRU-200H,service and router unit 200H, 11*GE (10*GE combo, 1*GE copper), 2*10GE SFP+, 1*USB, 2*DSP slot)
SRU-400H (02312NEU: SRU-400H, Service and Router Unit 400H, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)
SRU-400H (02312NEU-001: Service and Router Unit 400H, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)
SRU-400HK (02312XRW: SRU-400HK, Service and Router Unit 400HK, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)
SRU-400HK (02312XRW-001: Service and Router Unit 400HK, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)
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SRU-400H (02312NEU: SRU-400H, Service and Router Unit 400H, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)

Overview

Table 6-30 Basic information about the SRU-400H

Item	Details
Description	SRU-400H, Service and Router Unit 400H, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0
Part Number	02312NEU
Model	SRU-400H
Silkscreen	SRU-400H

Appearance

Figure 6-15 Appearance of the SRU-400H

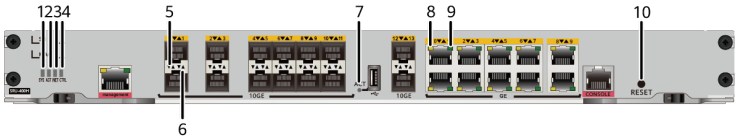
Version Mapping

Table 6-31 Mappings between SRU-400H and product models

Product	Product Model	First Supported Version	Last Supported Version	Unsupported Version	Limitations
AR6200	AR6280 (02115641)	V300R019C00	-	-	-
AR6300	AR6300 (02115640)	V300R019C00	-	-	-
AR6300	AR6300-S (02352VEL)	V300R019C00	-	-	-
AR6300	AR6300-S (02352VEL-001)	V300R022C00	-	-	-

Indicators and Buttons

Figure 6-16 Indicators and buttons on the SRU-400H



1. SYS indicator	2. ACT (active/standby status) indicator	3. iNET indicator
4. CTRL ir		

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Router Unit 600HK, 14*10GE(SFP+), 10*GE Copper,1*USB2.0)

SRU-600HK (02312XRV-001: Service and Router Unit 600HK, 14*10GE(SFP+), 10*GE Copper, 1*USB2.0)

Ethernet Card

E1&T1 Card

E3&T3 Card

Synchronous&Asynchronous Card

3G<E Card

5G Card

E&M Card

POS&CPOS Card

ISDN S&T WAN Card

Voice Card

xDSL Card

xPON Card

Security Card

Capacitor Card

AR-10 Card

Cables

Pluggable Modules for Interfaces

Accessories

	• 6: LINK indicator, green	
8 and 9. GE electrical interface indicators • 8: ACT indicator, yellow • 9: LINK indicator, green	10. RESET button	-

Table 6-32 Indicators on the SRU-400H

Silkscreen	Name	Color	Status	Description
SYS	SYS indicator	Green	Slow blinking	The system is running properly.
		Green	Fast blinking	The system is being powered on or restarting.
		Red	Steady on	A fault that affects services has occurred and cannot be rectified automatically. The fault needs to be rectified manually.
		-	Off	The system software is not running or is resetting.
ACT	ACT (active/standby status indicator) indicator	Green	Steady on	The SRU is in active state.
		-	Off	The SRU is in standby state.
iNET	iNET indicator	Green	Steady on	The network service has been established.
		-	Off	The network service is unavailable.
CTRL	CTRL indicator	Green	Steady on	The device has been managed by the controller.
		Green	Blinking	The plug-and-play deployment is ongoing by the registration query center.
CTRL	CTRL indicator	-	Off	The device has not been managed by the controller.
-	10GE optical interface indicators	Green (Link)	Steady on	A link has been established on the interface.
		Green (Link)	Off	No link is established.
		Yellow (ACT)	Blinking	Data is being transmitted or received on the interface.
		Yellow (ACT)	Off	No data is being transmitted or

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ACT	ACT (USB) indicator	Green	Steady on	The system has been upgraded or configured using a USB flash drive.
		Green	Blinking	The system is being upgraded or configured using a USB flash drive.
		Red	Steady on	The system fails to be upgraded or configured using a USB flash drive.
		-	Off	No USB flash drive is connected, the USB interface has failed, or the indicator has failed.
-	GE electrical interface indicators	Green (Link)	Steady on	A link has been established on the interface.
		Green (Link)	Off	No link is established.
		Yellow (ACT)	Blinking	Data is being transmitted or received on the interface.
		Yellow (ACT)	Off	No data is being transmitted or received on the interface.

Table 6-33 Buttons on the SRU-400H

Silkscreen	Name	Description
RESET	RESET button	This button is used to reset the router. • In an empty configuration scenario, ensure that the router has no console port input, and has no user login routers. If the Reset button is pressed and held for at least 5 seconds, you will access the registration query center of Huawei devices and obtain the cloud management platform address of routers for plug-and-play deployment. • In the configured scenario, hold down the button for at least 5 seconds to restore the factory settings. • To reset the router, hold down the button for less than 5 seconds. Resetting the router will interrupt services. Exercise caution when deciding to press this button.

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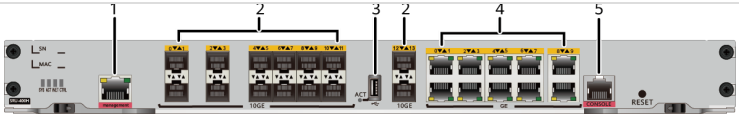

1. One MEth interface **NOTE:** MEth interface is the management network port on a device. It can implement web-based network management and email-based deployment.	2. WAN interfaces: fourteen 10GE optical interfaces **NOTE:** GE optical modules can be inserted into these fourteen optical interfaces. All 10GE WAN interfaces can be configured as LAN interfaces.	3. USB 2.0 interface
4. WAN interfaces: ten GE electrical interfaces **NOTE:** All GE WAN interfaces can be configured as LAN interfaces.	5. Console interface	-

Table 6-34 Ports on the SRU-400H

Port	Connector Type	Description	Available Components
Console interface	RJ45	The console interface of a router can connect to an operation terminal for onsite configuration. • Standards compliance: RS232 • Working mode: Full-duplex Universal Asynchronous Receiver/Transmitter (UART) • Data equipment type: Data Circuit-terminating Equipment (DCE)	Console cable
USB 2.0 interface	USB 2.0 Type A	A USB interface provides up to 480 Mbit/s upload and download rates. • Standards compliance: USB2.0 • Working mode: Host	USB 2.0 standard USB flash drive
GE electrical interface	RJ45	A GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • Standards compliance: IEEE802.3, IEEE802.3u, IEEE802.3ab • Working mode: Full-duplex (10/100/1000 Mbit/s auto-sensing) • Maximum transmission distance: 100 m	Ethernet cable
10GE optical interface	LC/PC	The 10GE optical interfaces (1/10 Gbit/s	Optical module The following

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		transmit and receive service traffic at 1 Gbit/s or 10 Gbit/s. • Optical interface attributes: The optical interface attributes vary depending on the optical module used. • Standards compliance: IEEE 802.3ae	supported. GE eSFP Optical Modules 10GE SFP+ Optical Modules

Functions and Features

Table 6-35 Functions and features of the SRU-400H

Functions and Features	Description
Overview	A Service and Router Unit (SRU) integrates the control and management functions and provides the control plane, management plane, and switching plane for the system. • Control plane: provides functions such as protocol processing, service processing, route calculation, forwarding control, service scheduling, traffic statistics collection, and system security. • Management plane: provides functions such as system monitoring, environment monitoring, log and alarm processing, system software loading, and system upgrade. • Switching plane: provides high-speed, non-blocking data channels for service switching between service modules.
Basic function	Stores system configuration data, startup files, upgrade software, and system running logs.
Voice function	Not supported
Control module	Provides the control plane and management plane to implement functions such as protocol processing, route calculation, forwarding control, system management, and system security.
Switching module	Acts as the service switching plane and provides high-speed channels for service switching functions.
Power module	Provides power for other modules of the SRU.
Clock module	Not supported

Technical Specifications

Table 6-36 Technical specifications of the SRU-400H

Item	Specification
Card type	EXSIC
Dimensions without packaging (H x W x D) [mm(in.)]	40.14 mm x 402.8 mm x 270.85 mm (1.58 in. x 15.86 in. x 10.66 in.)
Weight without packaging [kg(lb)]	3.3 kg (7.27 lb)
Typical power consumption [W]	73.6 W
Maximum power consumption [W]	92 W
Long-term operating temperature [°C(°F)]	0°C to 45°C (32°F to 113°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
CPU	16-core, 2.26 GHz
Memory	8 GB
NAND Flash	2 GB

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	command.
Hard disk	Not supported
DSP slot	Not supported
Console management port	RJ45
Hot swapping	Supported

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