item	Specification
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) NOTE When the altitude is 1800 m-5000 m (5906 ft.-16404.2 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m (ft.)]	< 5000 m (16404.2 ft.)
Storage temperature [°C (°F)]	-40°(to +70°((-40°F to +158°F)
Overtemperature alarm	Supported

3.3.19 AR617VW (50010480)

Overview

Table 3-104 Basic information about the AR617VW

item	Details
Description	AR617VW, 1*GE COMBO WAN, 4*GE LAN, 1*VDSL2, 2*FXS, 1*USB 2.0, Wi-Fi 2.4G+5G
Part Number	50010480
Model	AR617VW
First supported version	V300R019C10

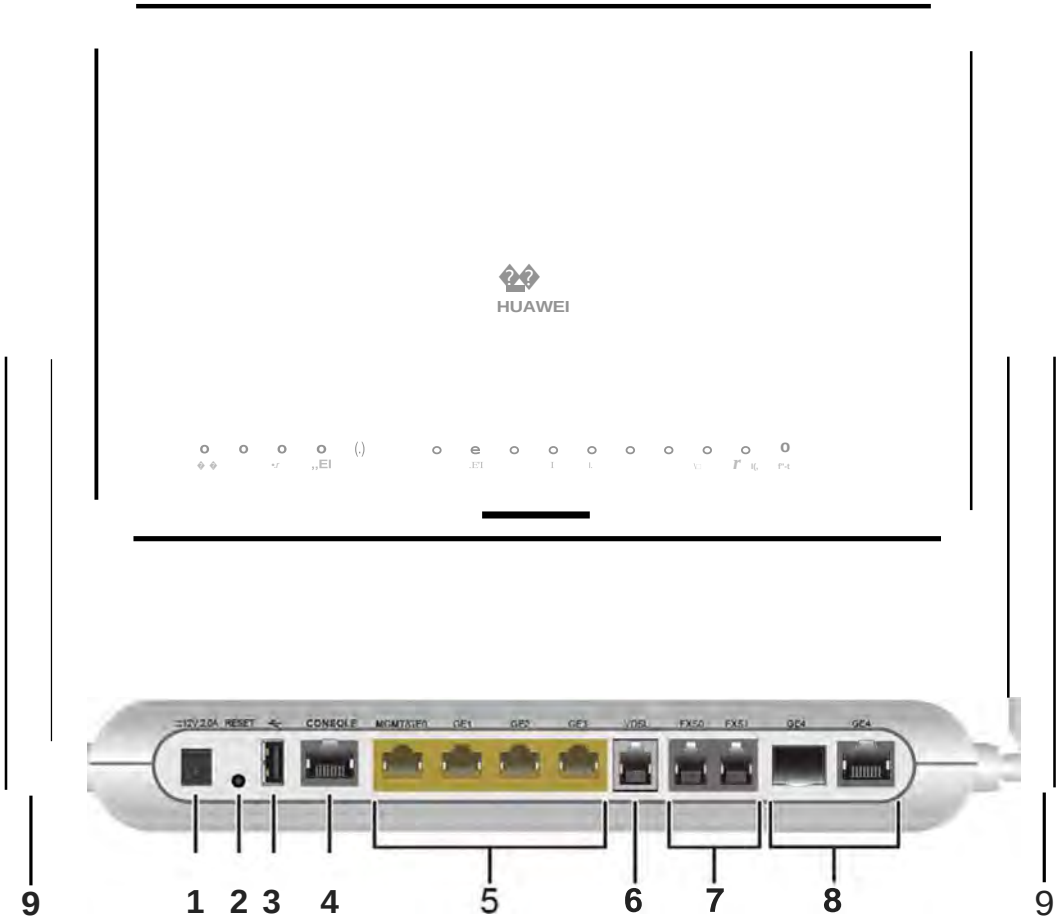
item	Details
Remarks	AR617VW (24 W separate power adapter; part number: 50010480) AR617VW (36 W power adapter HW-36-12AC8D-1; part number: 50010513) AR617VW (part number: 50010591): available in V300R019C13 and later versions AR617VW (part number: 50010592): available in V300R019C13 and later versions Devices manufactured after March 31, 2021 support only V300R019C13 and later versions.

Appearance

Figure 3-58 Appearance of the AR617VW

Components

Figure 3-59 Components of the AR617VW



1. Power socket	2. RESET button **NOTE** This button is used to reset the router. • To restare the factory settings, hold down the button far at least 5 seconds. • To reset the router, hold down the button far less than 5 seconds. Resetting the router will interrupt services. Exercise caution when deciding to press this button. If needed, you can run the **factory-configuration prohibit** command in the system view to disable the function of restoring the factory settings by holding down the RESET button. To enable this function again, run the **undo factory-configuration prohibit** command.	3. USB 2.0 interface (host)
4. Console interface	5. LAN interfaces: four GE electrical interfaces	6. WAN interface: VDSL interface **NOTE** This interface supports the dying gasp function.
7. Two FXS interfaces	8. WAN interface: GE combo interface	9. Two Wi-Fi antenna interfaces

Ports

Table 3-105 Ports on the AR617VW

Port	Connector Type	Description	Available Components
Console interface	RJ45	The console interface can connect to an operation terminal for onsite configuration. • Standards compliance: RS232 • Working mode: duplex Universal Asynchronous Receiver/ Transmitter (UART) • Data equipment type: Data Circuit-terminating Equipment (DCE)	**Console cable**

Port	Connector Type	Description	Available Components
LAN interfaces: four GE electrical interfaces	RJ45	A GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • Standards compliance: IEEE802.3, IEEE802.3u, and IEEE802.3ab • Working mode: full-duplex (10/100/1000 Mbit/s auto-sensing) • Maximum distance: 100 m **NOTE** GEO is a management interface and is used for web-based management and email-based deployment. Ali LAN-side GE interfaces can be configured as WAN-side interfaces.	**Ethernet cable**

Port	Connector Type	Description	Available Components
WAN interface: VDSL interface	RJ11	A very-high-speed digital subscriber line (VDSL) interface transmits service data from a LAN to an upstream device at a high speed over a twisted pair. Standards compliance: • T1.413ANSI ADSL DMT issue 2 compliance • ADSL Annex A ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex M G.992.3 (ADSL2) and G.992.5 (ADSL2+) • ADSL Annex B ITU G.992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex J ITU G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b	**Universal telephone cable**

Port	Connector Type	Description	Available Components
		• VDSL2 Vectoring (G993.5). Only over POTS vectoring is supported.	
Two FXS interfaces	RJ11	An FXS interface is an analog subscriber line interface and can connect to an analog phone or fax machine. • Standards compliance: ITU Q.512 for the FXS interface • Dialing mode: DTMF in compliance with GB3378 • Bandwidth: 300 Hz to 3400 Hz	**Universal telephone cable**

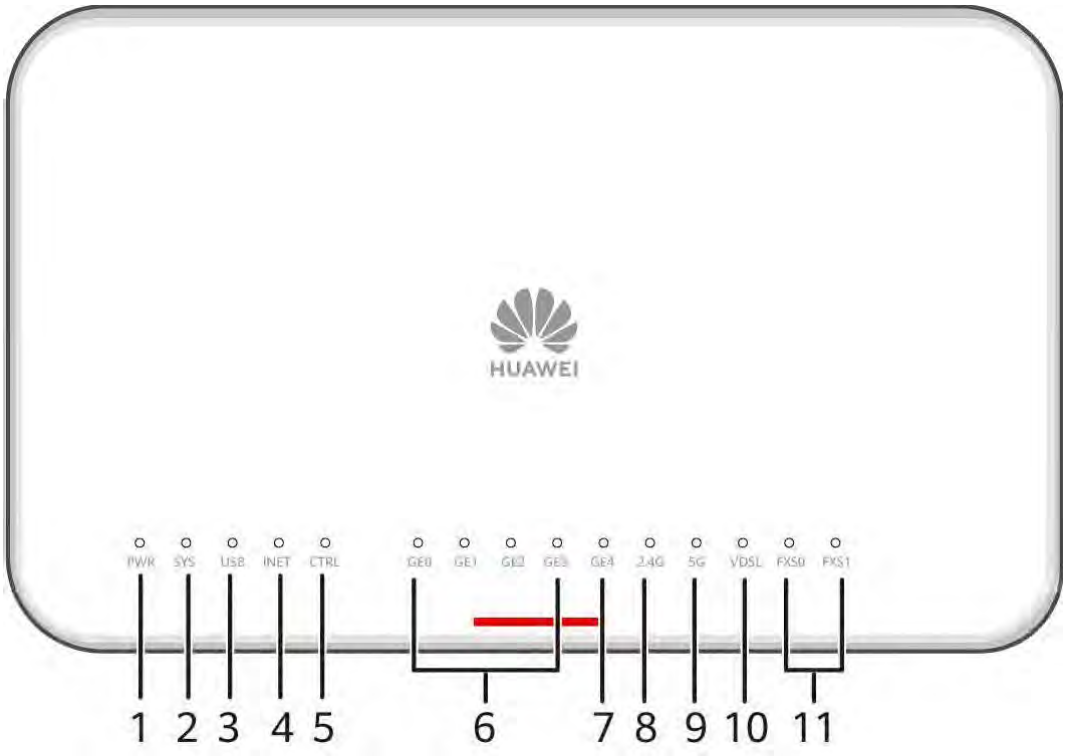
Port	Connector Type	Description	Available Components
WAN interfaces: GE combo interfaces	GE electrical interface: RJ45 GE optical interface: LC/PC	A GE combo interface consists of an optical Ethernet interface and an electrical Ethernet interface on the panel. The two interfaces have only one internal forwarding interface. The electrical and optical interfaces are multiplexed, and only either of them can work at a time. When either of the Ethernet interfaces is working, the other interface is shut down. • The GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • The GE optical interface (100/1000 Mbit/s auto-sensing) transmits and receives services at 100 Mbit/s or 1000 Mbit/s.	• GE electrical interface: Ethernet cable • GE optical interface: optical module The following optical modules are supported: **FE SFP&eSFP optical modules** **GE eSFP optical modules** **GPON&EPON optical modules {supported in V300R023C00 and later versions)**

Port	Connector Type	Description	Available Components
		NOTE By default, a combo interface works in auto mode and automatically works as an optical or electrical interface.	
Two Wi-Fi antenna interfaces	RP-SMA-K (screw threads outside and a pin inside)	A Wi-Fi antenna interface connects to a Wi-Fi antenna to transmit and receive data. • Standards compliance: 802.11a/b/g/n/ac • Supported frequency bands: 2.4 GHz and 5 GHz • Supported rate: 866 Mbit/s • MIMO mode (Tx x Rx): 2 x 2 • Gain: 2.5 dBi/3.0 dBi • Supported services: Layer 2/Layer 3 wireless access, wireless encryption, and wireless security **NOTE** Wi-Fi antennas have been installed on Wi-Fi interfaces of a router before delivery and cannot be removed.	Wi-Fi antenna

Port	Connector Type	Description	Available Components
USB interface 2.0 (host)	USB 2.0 Type A	A USB interface provides up to 480 Mbit/s upload and download rates. • Standards compliance: USB 2.0 • Working mode: Host	USB 2.0-compliant USB flash drive

Indicators and Buttons

Figure 3-60 Indicators and buttons on the AR617VW



1,. PWR indicator	I 2. SYS indicator	13. USB indicator
4. iNET indicator	5. CTRL indicator	6. LAN (GE0 to GE3) interface indicators

7. GE combo interface indicator (GE4)	8. WLAN 2.4 GHz indicator (effective when the device works on the 2.4 GHz band)	9. WLAN 5 GHz indicator (effective when the device works on the 5 GHz band)
10. VDSL interface indicator	11. FXS interface indicators (FXS0 to FXS1)	-

Table 3-106 Indicators on the AR617VW

Silkscreen	Name	Color	Status	Description
PWR	PWR indicator	Green	Steady on	The system power supply is normal.
		-	Off	The system power is off.
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. The fault cannot be rectified automatically and requires manual intervention.
			Off	The system software is not running or is being reset.
USB	USB indicator	Green	Steady on	The system has been upgraded or configured using a USB flash drive.

Silkscreen	Name	Color	Status	Description
		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.
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 connected to the controller.
		Green	Blinking	The device is connecting to controller.
		-	Off	The device is not connected to the controller.
GE0 to GE3	LAN interface indicator (GE0 to GE3)	Green	Steady on	A link has been established on the corresponding LAN interface.

Silkscreen	Name	Color	Status	Description
		Green	Blinking	Data is being transmitted or received on the corresponding LAN interface.
		-	Off	No link is established on the corresponding LAN interface.
GE4	GE combo interface indicator (GE4)	Green	Steady on	A link has been established on the corresponding GE combo interface.
		Green	Blinking	Data is being transmitted or received on the corresponding GE combo interface.
		-	Off	No link is established on the corresponding GE combo interface.
2.4G	WLAN 2.4G indicator (effective when working on the 2.4 GHz band)	Green	Steady on	A link has been established
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down
5G	WLAN 5G indicator (effective when working on the 5 GHz band)	Green	Steady on	A link has been established

Silkscreen	Name	Color	Status	Description
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down.
VDSL	VDSL interface indicator	Green	Steady on	A link has been established on the corresponding VDSL interface.
		Green	Blinking	A link is activating on the corresponding VDSL interface.
			Off	No link is established on the corresponding VDSL interface.
FXSO to FXS1	FXS interface indicators (FXSO to FXS1)	Green	Steady on	The corresponding FXS channel is being occupied by a call.
			Off	The corresponding FXS channel is idle.

Table 3-107 Buttons on the AR617VW

Silkscreen	Name	Description
RESET	RESET button	This button is used to reset the router. • To restore the factory settings, hold down the button for at least 5 seconds. • 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.

Technical Specifications

Table 3-108 Technical specifications of the AR617VW

item	Specification
Installation type	• Work bench • Against the wall
Chassis height [U]	
Dimensions without packaging (H x W x D) [mm (in.)]	• Basic dimensions: 38.0 mm x 240.0 mm x 161.5 mm (1.5 in. x 9.45 in. x 6.36 in.) • Maximum dimensions: 41.4 mm x 278.6 mm x 161.5 mm (1.63 in. x 10.97 in. x 6.36 in.)
Dimensions with packaging (H x W x D) [mm (in.)]	90 mm x 370 mm x 297 mm (3.54 in. x 14.57 in. x 11.69 in.)
Weight with packaging [kg (lb)]	1.24 kg (2.73 lb)
Weight without packaging [kg (lb)]	0.63 kg {1.39 lb)
CPU	1.1 GHz, 2 Cores
Memory	1 GB
NAND Flash	1 GB
Console port	RJ45

Item	Specification
RTC	Supported
LAN ports	4 x GE electrical interfaces
WAN ports	1 x GE combo
Number of service board slots	0
MIC slots (default/maximum)	0/0
SIC slots (default/maximum)	0/0
WSIC slots (default/maximum)	0/0
XSIC slots (default/maximum)	0/0
Redundant MPUs	Not supported
RPS input	Not supported
PoE	Not supported
IP rating	IP20
MTBF [years]	55.65 years
MTTR [hours]	2 hours
Availability	0.9999958973
Typical power consumption [W]	11.2 W
Maximum power consumption [W]	14 W
Power supply mode	AC power adapter
Number of power modules	1
Rated input voltage [V]	11O V to 220 V, 50 Hz/60 Hz
Input voltage range [V]	90 V to 270 V, 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Maximum output power [W]	24W
Redundantpowersupp|	Not supported
Types of fans	None
Number of fan modules	0
Heat dissipation mode	Natural heat dissipation
Airflow	Natural heat dissipation
Noise at normal temperature (acoustic power) [dB(A)]	0 (Natural heat dissipation)

item	Specification
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) NOTE When the altitude is 1800 m-5000 m (5906 ft.-16404.2 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m (ft.)]	< 5000 m (16404.2 ft.)
Storage temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)
Overtemperature alarm	Supported

3.3.20 AR617VW (50010480-003)

Overview

Table 3-109 Basie information about the AR617VW

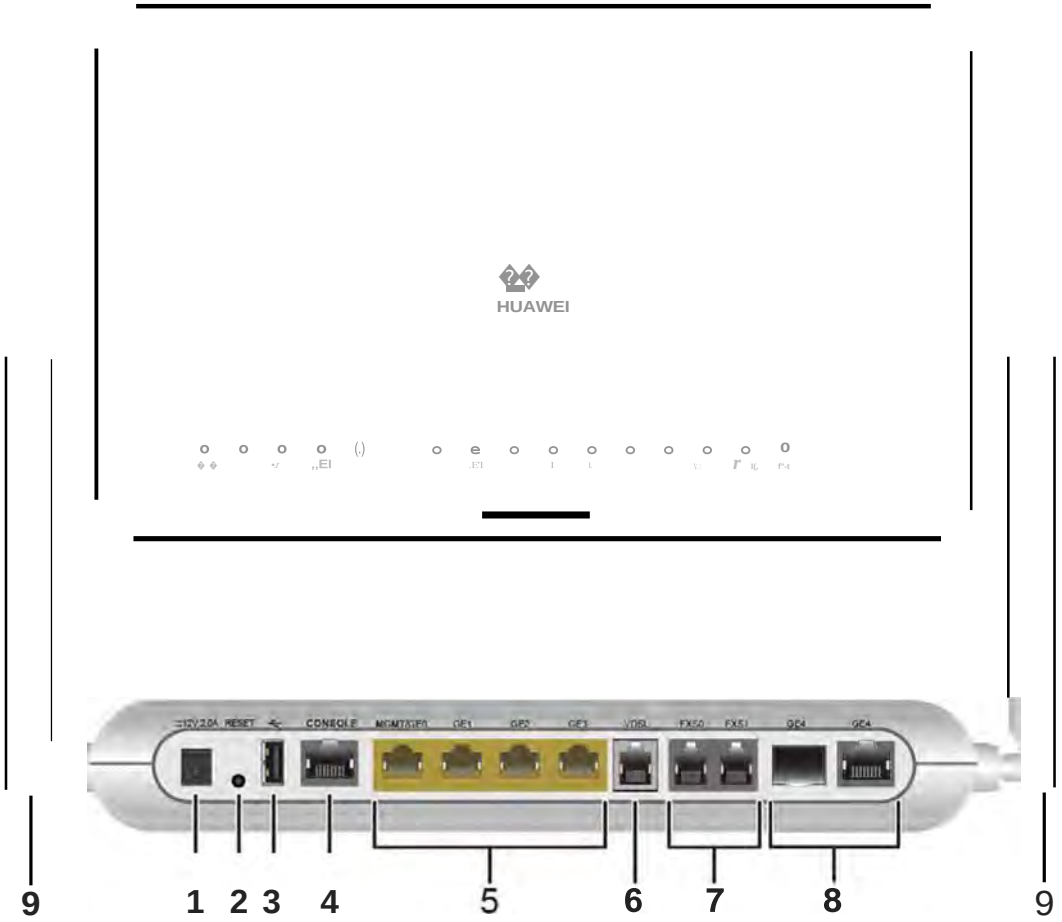
item	Details
Description	AR617VW, 1*GE COMBO WAN, 4*GE LAN, 1*VDSL2, 2*FXS, 1*USB 2.0, Wi-Fi 2.4G+5G
Part Number	50010480-003
Model	AR617VW
First supported version	V300R023C10

Appearance

Figure 3-61 Appearance of the AR617VW

Components

Figure 3-62 Components of the AR617VW



1. Power socket	2. RESET button **NOTE** This button is used to reset the router. • To restare the factory settings, hold down the button far at least 5 seconds. • To reset the router, hold down the button far less than 5 seconds. Resetting the router will interrupt services. Exercise caution when deciding to press this button. If needed, you can run the **factory-configuration prohibit** command in the system view to disable the function of restoring the factory settings by holding down the RESET button. To enable this function again, run the **undo factory-configuration prohibit** command.	3. USB 2.0 interface (host)
4. Console interface	5. LAN interfaces: four GE electrical interfaces	6. WAN interface: VDSL interface **NOTE** This interface supports the dying gasp function.
7. Two FXS interfaces	8. WAN interface: GE combo interface	9. Two Wi-Fi antenna interfaces

Ports

Table 3-110 Ports on the AR617VW

Port	Connector Type	Description	Available Components
Console interface	RJ45	The console interface can connect to an operation terminal for onsite configuration. • Standards compliance: RS232 • Working mode: duplex Universal Asynchronous Receiver/ Transmitter (UART) • Data equipment type: Data Circuit-terminating Equipment (DCE)	**Console cable**

Port	Connector Type	Description	Available Components
LAN interfaces: four GE electrical interfaces	RJ45	A GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • Standards compliance: IEEE802.3, IEEE802.3u, and IEEE802.3ab • Working mode: full-duplex (10/100/1000 Mbit/s auto-sensing) • Maximum distance: 100 m **NOTE** GEO is a management interface and is used for web-based management and email-based deployment. Ali LAN-side GE interfaces can be configured as WAN-side interfaces.	**Ethernet cable**

Port	Connector Type	Description	Available Components
WAN interface: VDSL interface	RJ11	A very-high-speed digital subscriber line (VDSL) interface transmits service data from a LAN to an upstream device at a high speed over a twisted pair. Standards compliance: • T1.413ANSI ADSL DMT issue 2 compliance • ADSL Annex A ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex M G.992.3 (ADSL2) and G.992.5 (ADSL2+) • ADSL Annex B ITU G.992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex J ITU G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b	**Universal telephone cable**

Port	Connector Type	Description	Available Components
		• VDSL2 Vectoring (G993.5). Only over POTS vectoring is supported.	
Two FXS interfaces	RJ11	An FXS interface is an analog subscriber line interface and can connect to an analog phone or fax machine. • Standards compliance: ITU Q.512 for the FXS interface • Dialing mode: DTMF in compliance with GB3378 • Bandwidth: 300 Hz to 3400 Hz	**Universal telephone cable**

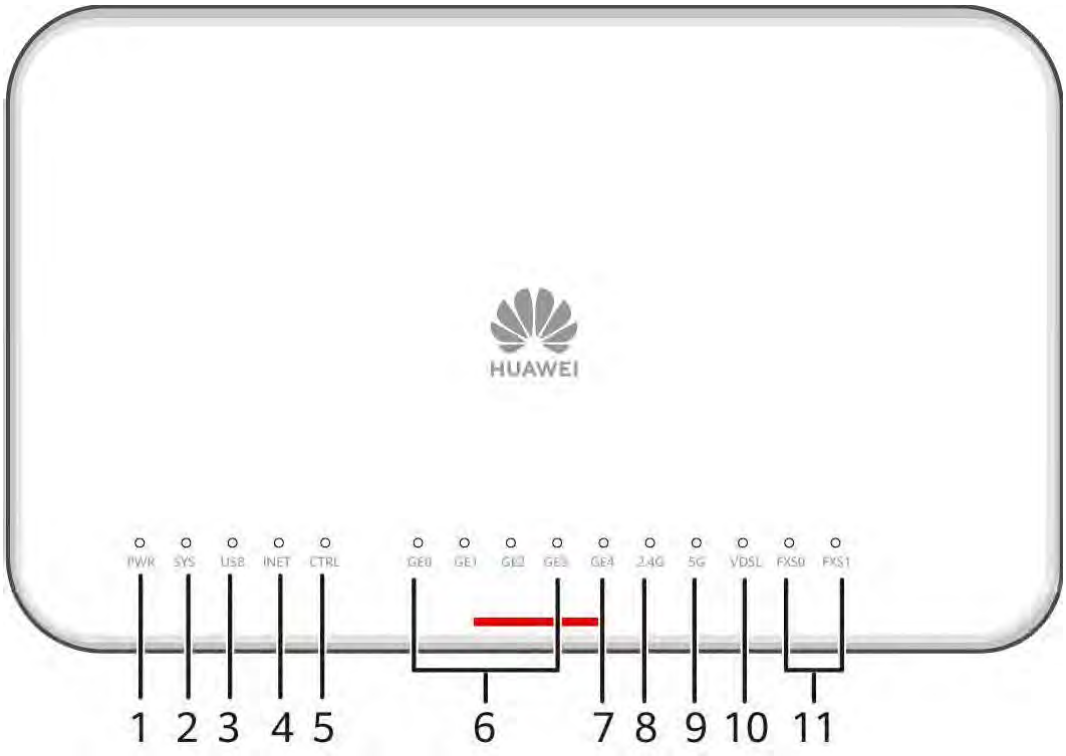
Port	Connector Type	Description	Available Components
WAN interfaces: GE combo interfaces	GE electrical interface: RJ45 GE optical interface: LC/PC	A GE combo interface consists of an optical Ethernet interface and an electrical Ethernet interface on the panel. The two interfaces have only one internal forwarding interface. The electrical and optical interfaces are multiplexed, and only either of them can work at a time. When either of the Ethernet interfaces is working, the other interface is shut down. • The GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • The GE optical interface (100/1000 Mbit/s auto-sensing) transmits and receives services at 100 Mbit/s or 1000 Mbit/s.	• GE electrical interface: Ethernet cable • GE optical interface: optical module The following optical modules are supported: **FE SFP&eSFP optical modules** **GE eSFP optical modules** **GPON&EPON optical modules**

Port	Connector Type	Description	Available Components
		NOTE By default, a combo interface works in auto mode and automatically works as an optical or electrical interface.	
Two Wi-Fi antenna interfaces	RP-SMA-K (screw threads outside and a pin inside)	A Wi-Fi antenna interface connects to a Wi-Fi antenna to transmit and receive data. • Standards compliance: 802.11a/b/g/n/ac • Supported frequency bands: 2.4 GHz and 5 GHz • Supported rate: 866 Mbit/s • MIMO mode (Tx x Rx): 2 x 2 • Gain: 2.5 dBi/3.0 dBi • Supported services: Layer 2/Layer 3 wireless access, wireless encryption, and wireless security **NOTE** Wi-Fi antennas have been installed on Wi-Fi interfaces of a router before delivery and cannot be removed.	Wi-Fi antenna

Port	Connector Type	Description	Available Components
USB interface 2.0 (host)	USB 2.0 Type A	A USB interface provides up to 480 Mbit/s upload and download rates. • Standards compliance: USB 2.0 • Working mode: Host	USB 2.0-compliant USB flash drive

Indicators and Buttons

Figure 3-63 Indicators and buttons on the AR617VW



1,. PWR indicator	I 2. SYS indicator	13. USB indicator
4. iNET indicator	5. CTRL indicator	6. LAN (GE0 to GE3) interface indicators

7. GE combo interface indicator (GE4)	8. WLAN 2.4 GHz indicator (effective when the device works on the 2.4 GHz band)	9. WLAN 5 GHz indicator (effective when the device works on the 5 GHz band)
10. VDSL interface indicator	11. FXS interface indicators (FXS0 to FXS1)	-

Table 3-111 Indicators on the AR617VW

Silkscreen	Name	Color	Status	Description
PWR	PWR indicator	Green	Steady on	The system power supply is normal.
		-	Off	The system power is off.
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. The fault cannot be rectified automatically and requires manual intervention.
			Off	The system software is not running or is being reset.
USB	USB indicator	Green	Steady on	The system has been upgraded or configured using a USB flash drive.

Silkscreen	Name	Color	Status	Description
		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.
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 connected to the controller.
		Green	Blinking	The device is connecting to controller.
		-	Off	The device is not connected to the controller.
GE0 to GE3	LAN interface indicator (GE0 to GE3)	Green	Steady on	A link has been established on the corresponding LAN interface.

Silkscreen	Name	Color	Status	Description
		Green	Blinking	Data is being transmitted or received on the corresponding LAN interface.
		-	Off	No link is established on the corresponding LAN interface.
GE4	GE combo interface indicator (GE4)	Green	Steady on	A link has been established on the corresponding GE combo interface.
		Green	Blinking	Data is being transmitted or received on the corresponding GE combo interface.
		-	Off	No link is established on the corresponding GE combo interface.
2.4G	WLAN 2.4G indicator (effective when working on the 2.4 GHz band)	Green	Steady on	A link has been established
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down
5G	WLAN 5G indicator (effective when working on the 5 GHz band)	Green	Steady on	A link has been established

Silkscreen	Name	Color	Status	Description
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down.
VDSL	VDSL interface indicator	Green	Steady on	A link has been established on the corresponding VDSL interface.
		Green	Blinking	A link is activating on the corresponding VDSL interface.
			Off	No link is established on the corresponding VDSL interface.
FXSO to FXS1	FXS interface indicators (FXSO to FXS1)	Green	Steady on	The corresponding FXS channel is being occupied by a call.
			Off	The corresponding FXS channel is idle.

Table 3-112 Buttons on the AR617VW

Silkscreen	Name	Description
RESET	Reset button	This button is used to reset the device. • To restore the factory settings, hold down the button for at least 5 seconds. • To reset the device, hold down the button for less than 5 seconds. Resetting the device will cause service interruption. Exercise caution when you press the Reset button.

Technical Specifications

Table 3-113 Technical specifications of the AR617VW

item	Specification
Installation type	• Work bench • Against the wall
Chassis height [U]	
Dimensions without packaging (H x W x D) [mm (in.)]	• Basic dimensions: 38.0 mm x 240.0 mm x 161.5 mm (1.5 in. x 9.45 in. x 6.36 in.) • Maximum dimensions: 41.4 mm x 278.6 mm x 161.5 mm (1.63 in. x 10.97 in. x 6.36 in.)
Dimensions with packaging (H x W x D) [mm (in.)]	90 mm x 370 mm x 297 mm (3.54 in. x 14.57 in. x 11.69 in.)
Weight with packaging [kg (lb)]	1.24 kg (2.73 lb)
Weight without packaging [kg (lb)]	0.63 kg (1.39 lb)
CPU	1.1 GHz, 2 Cores
Memory	1 GB
NAND Flash	1 GB
Console port	RJ45

Item	Specification
RTC	Supported
LAN ports	4 x GE electrical interfaces
WAN ports	1 x GE combo
Number of service board slots	0
MIC slots (default/maximum)	0/0
SIC slots (default/maximum)	0/0
WSIC slots (default/maximum)	0/0
XSIC slots (default/maximum)	0/0
Redundant MPUs	Not supported
RPS input	Not supported
PoE	Not supported
IP rating	IP20
MTBF [years]	55.65 years
MTTR [hours]	2 hours
Availability	0.9999958973
Typical power consumption [W]	18.SW (AC)
Maximum power consumption [W]	19.8W (AC)
Power supply mode	AC power adapter
Number of power modules	1
Rated input voltage [V]	11O V to 220 V, 50 Hz/60 Hz
Input voltage range [V]	90 V to 270 V, 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Maximum output power [W]	24W
Redundantpowersupp|	Not supported
Types of fans	None
Number of fan modules	0
Heat dissipation mode	Natural heat dissipation
Airflow	Natural heat dissipation
Noise at normal temperature (acoustic power) [dB(A)]	0 (Natural heat dissipation)

item	Specification
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) NOTE When the altitude is 1800 m-5000 m (5906 ft.-16404.2 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m (ft.)]	< 5000 m (16404.2 ft.)
Storage temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)
Overtemperature alarm	Supported

3.3.21 AR617VW (50010480-01O)

Overview

Table 3-114 Basic information about the AR617VW

item	Details
Description	AR617VW, 1*GE COMBO WAN, 4*GE LAN, 1*VDSL2, 2*FXS, 1*USB 2.0, Wi-Fi 2.4G+5G
Part Number	50010480-01O
Model	AR617VW
First supported version	V300R019C10

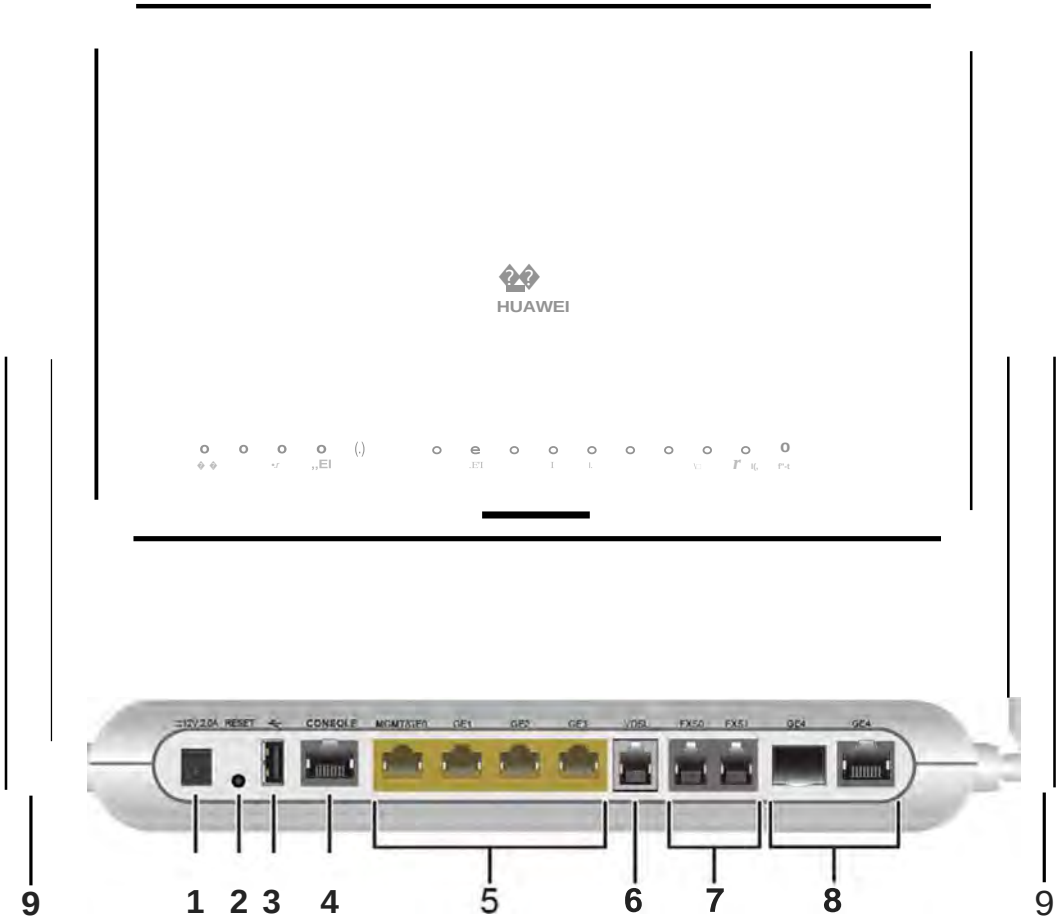
item	Details
Remarks	AR617VW (24 W separate power adapter; part number: 50010480) AR617VW (36 W power adapter HW-36-12AC8D-1; part number: 50010513) AR617VW (part number: 50010591): available in V300R019C13 and later versions AR617VW (part number: 50010592): available in V300R019C13 and later versions Devices manufactured after March 31, 2021 support only V300R019C13 and later versions.

Appearance

Figure 3-64 Appearance of the AR617VW

Components

Figure 3-65 Components of the AR617VW



1. Power socket	2. RESET button **NOTE** This button is used to reset the router. • To restare the factory settings, hold down the button far at least 5 seconds. • To reset the router, hold down the button far less than 5 seconds. Resetting the router will interrupt services. Exercise caution when deciding to press this button. If needed, you can run the **factory-configuration prohibit** command in the system view to disable the function of restoring the factory settings by holding down the RESET button. To enable this function again, run the **undo factory-configuration prohibit** command.	3. USB 2.0 interface (host)
4. Console interface	5. LAN interfaces: four GE electrical interfaces	6. WAN interface: VDSL interface **NOTE** This interface supports the dying gasp function.
7. Two FXS interfaces	8. WAN interface: GE combo interface	9. Two Wi-Fi antenna interfaces

Ports

Table 3-115 Ports on the AR617VW

Port	Connector Type	Description	Available Components
Console interface	RJ45	The console interface can connect to an operation terminal for onsite configuration. • Standards compliance: RS232 • Working mode: duplex Universal Asynchronous Receiver/ Transmitter (UART) • Data equipment type: Data Circuit-terminating Equipment (DCE)	**Console cable**

Port	Connector Type	Description	Available Components
LAN interfaces: four GE electrical interfaces	RJ45	A GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • Standards compliance: IEEE802.3, IEEE802.3u, and IEEE802.3ab • Working mode: full-duplex (10/100/1000 Mbit/s auto-sensing) • Maximum distance: 100 m **NOTE** GEO is a management interface and is used for web-based management and email-based deployment. Ali LAN-side GE interfaces can be configured as WAN-side interfaces.	**Ethernet cable**

Port	Connector Type	Description	Available Components
WAN interface: VDSL interface	RJ11	A very-high-speed digital subscriber line (VDSL) interface transmits service data from a LAN to an upstream device at a high speed over a twisted pair. Standards compliance: • T1.413ANSI ADSL DMT issue 2 compliance • ADSL Annex A ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex M G.992.3 (ADSL2) and G.992.5 (ADSL2+) • ADSL Annex B ITU G.992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex J ITU G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b	**Universal telephone cable**

Port	Connector Type	Description	Available Components
		• VDSL2 Vectoring (G993.5). Only over POTS vectoring is supported.	
Two FXS interfaces	RJ11	An FXS interface is an analog subscriber line interface and can connect to an analog phone or fax machine. • Standards compliance: ITU Q.512 for the FXS interface • Dialing mode: DTMF in compliance with GB3378 • Bandwidth: 300 Hz to 3400 Hz	**Universal telephone cable**

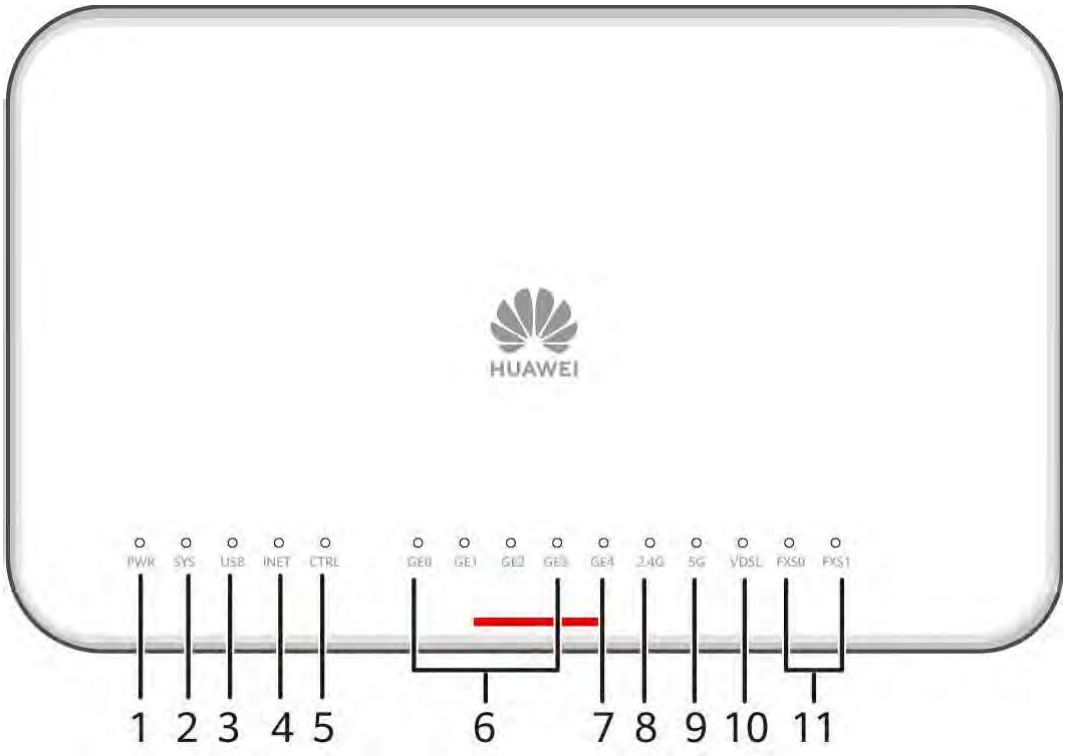
Port	Connector Type	Description	Available Components
WAN interfaces: GE combo interfaces	GE electrical interface: RJ45 GE optical interface: LC/PC	A GE combo interface consists of an optical Ethernet interface and an electrical Ethernet interface on the panel. The two interfaces have only one internal forwarding interface. The electrical and optical interfaces are multiplexed, and only either of them can work at a time. When either of the Ethernet interfaces is working, the other interface is shut down. • The GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • The GE optical interface (100/1000 Mbit/s auto-sensing) transmits and receives services at 100 Mbit/s or 1000 Mbit/s.	• GE electrical interface: Ethernet cable • GE optical interface: optical module The following optical modules are supported: **FE SFP&eSFP optical modules** **GE eSFP optical modules** **GPON&EPON optical modules {supported in V300R023C00 and later versions)**

Port	Connector Type	Description	Available Components
		NOTE By default, a combo interface works in auto mode and automatically works as an optical or electrical interface.	
Two Wi-Fi antenna interfaces	RP-SMA-K (screw threads outside and a pin inside)	A Wi-Fi antenna interface connects to a Wi-Fi antenna to transmit and receive data. • Standards compliance: 802.11a/b/g/n/ac • Supported frequency bands: 2.4 GHz and 5 GHz • Supported rate: 866 Mbit/s • MIMO mode (Tx x Rx): 2 x 2 • Gain: 2.5 dBi/3.0 dBi • Supported services: Layer 2/Layer 3 wireless access, wireless encryption, and wireless security **NOTE** Wi-Fi antennas have been installed on Wi-Fi interfaces of a router before delivery and cannot be removed.	Wi-Fi antenna

Port	Connector Type	Description	Available Components
USB interface 2.0 (host)	USB 2.0 Type A	A USB interface provides up to 480 Mbit/s upload and download rates. • Standards compliance: USB 2.0 • Working mode: Host	USB 2.0-compliant USB flash drive

Indicators and Buttons

Figure 3-66 Indicators and buttons on the AR617VW



1,. PWR indicator	I 2. SYS indicator	13. USB indicator
4. iNET indicator	5. CTRL indicator	6. LAN (GE0 to GE3) interface indicators

7. GE combo interface indicator (GE4)	8. WLAN 2.4 GHz indicator (effective when the device works on the 2.4 GHz band)	9. WLAN 5 GHz indicator (effective when the device works on the 5 GHz band)
10. VDSL interface indicator	11. FXS interface indicators (FXS0 to FXS1)	-

Table 3-116 Indicators on the AR617VW

Silkscreen	Name	Color	Status	Description
PWR	PWR indicator	Green	Steady on	The system power supply is normal.
		-	Off	The system power is off.
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. The fault cannot be rectified automatically and requires manual intervention.
			Off	The system software is not running or is resetting.
USB	USB indicator	Green	Steady on	The system has been upgraded or configured using a USB flash drive.

Silkscreen	Name	Color	Status	Description
		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.
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 connected to the controller.
		Green	Blinking	The device is connecting to controller.
		-	Off	The device is not connected to the controller.
GE0 to GE3	LAN interface indicator (GE0 to GE3)	Green	Steady on	A link has been established on the corresponding LAN interface.

Silkscreen	Name	Color	Status	Description
		Green	Blinking	Data is being transmitted or received on the corresponding LAN interface.
		-	Off	No link is established on the corresponding LAN interface.
GE4	GE combo interface indicator (GE4)	Green	Steady on	A link has been established on the corresponding GE combo interface.
		Green	Blinking	Data is being transmitted or received on the corresponding GE combo interface.
		-	Off	No link is established on the corresponding GE combo interface.
2.4G	WLAN 2.4G indicator (effective when working on the 2.4 GHz band)	Green	Steady on	A link has been established
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down
5G	WLAN 5G indicator (effective when working on the 5 GHz band)	Green	Steady on	A link has been established

Silkscreen	Name	Color	Status	Description
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down.
VDSL	VDSL interface indicator	Green	Steady on	A link has been established on the corresponding VDSL interface.
		Green	Blinking	A link is activating on the corresponding VDSL interface.
			Off	No link is established on the corresponding VDSL interface.
FXSO to FXS1	FXS interface indicators (FXSO to FXS1)	Green	Steady on	The corresponding FXS channel is being occupied by a call.
			Off	The corresponding FXS channel is idle.

Table 3-117 Buttons on the AR617VW

Silkscreen	Name	Description
RESET	RESET button	This button is used to reset the router. • To restore the factory settings, hold down the button for at least 5 seconds. • 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.

Technical Specifications

Table 3-118 Technical specifications of the AR617VW

item	Specification
Installation type	• Work bench • Against the wall
Chassis height [U]	
Dimensions without packaging (H x W x D) [mm (in.)]	• Basic dimensions: 38.0 mm x 240.0 mm x 161.5 mm (1.5 in. x 9.45 in. x 6.36 in.) • Maximum dimensions: 41.4 mm x 278.6 mm x 161.5 mm (1.63 in. x 10.97 in. x 6.36 in.)
Dimensions with packaging (H x W x D) [mm (in.)]	90 mm x 370 mm x 297 mm (3.54 in. x 14.57 in. x 11.69 in.)
Weight with packaging [kg (lb)]	1.24 kg (2.73 lb)
Weight without packaging [kg (lb)]	0.63 kg {1.39 lb)
CPU	1.1 GHz, 2 Cores
Memory	1 GB
NAND Flash	1 GB
Console port	RJ45

Item	Specification
RTC	Supported
LAN ports	4 x GE electrical interfaces
WAN ports	1 x GE combo
Number of service board slots	0
MIC slots (default/maximum)	0/0
SIC slots (default/maximum)	0/0
WSIC slots (default/maximum)	0/0
XSIC slots (default/maximum)	0/0
Redundant MPUs	Not supported
RPS input	Not supported
PoE	Not supported
IP rating	IP20
MTBF [years]	55.65 years
MTTR [hours]	2 hours
Availability	0.9999958973
Typical power consumption [W]	11.2 W
Maximum power consumption [W]	14 W
Power supply mode	AC power adapter
Number of power modules	1
Rated input voltage [V]	11O V to 220 V, 50 Hz/60 Hz
Input voltage range [V]	90 V to 270 V, 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Maximum output power [W]	24W
Redundantpowersupp|	Not supported
Types of fans	None
Number of fan modules	0
Heat dissipation mode	Natural heat dissipation
Airflow	Natural heat dissipation
Noise at normal temperature (acoustic power) [dB(A)]	0 (Natural heat dissipation)

item	Specification
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) NOTE When the altitude is 1800 m-5000 m (5906 ft.-16404.2 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m (ft.)]	< 5000 m (16404.2 ft.)
Storage temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)
Overtemperature alarm	Supported

3.3.22 AR617VW (50010591-001)

Overview

Table 3-119 Basic information about the AR617VW

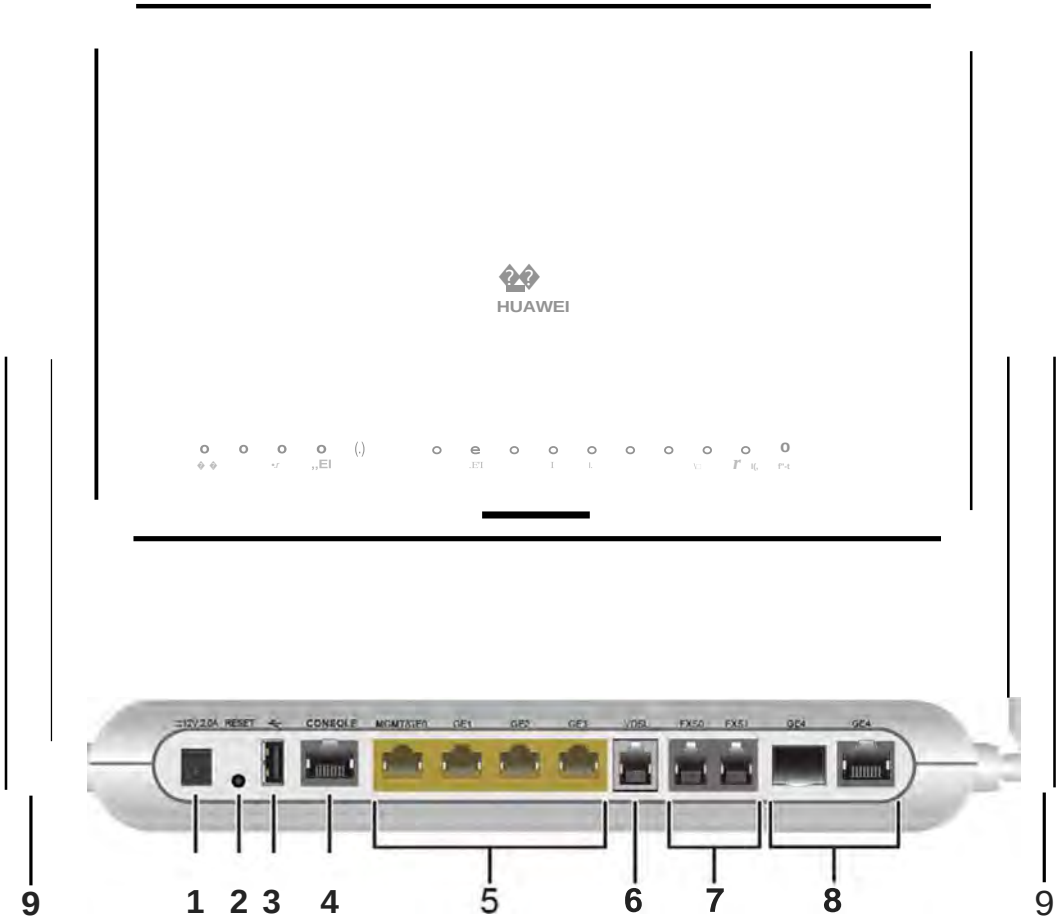
item	Details
Description	AR617VW, 1*GE COMBO WAN, 4*GE LAN, 1*VDSL2, 2*FXS, 1*USB 2.0, Wi-Fi 2.4G+5G,for France Bouygues Telecom
Part Number	50010591-001
Model	AR617VW
First supported version	V300R023C10

Appearance

Figure 3-67 Appearance of the AR617VW

Components

Figure 3-68 Components of the AR617VW



1. Power socket	2. RESET button **NOTE** This button is used to reset the router. • To restare the factory settings, hold down the button far at least 5 seconds. • To reset the router, hold down the button far less than 5 seconds. Resetting the router will interrupt services. Exercise caution when deciding to press this button. If needed, you can run the **factory-configuration prohibit** command in the system view to disable the function of restoring the factory settings by holding down the RESET button. To enable this function again, run the **undo factory-configuration prohibit** command.	3. USB 2.0 interface (host)
4. Console interface	5. LAN interfaces: four GE electrical interfaces	6. WAN interface: VDSL interface **NOTE** This interface supports the dying gasp function.
7. Two FXS interfaces	8. WAN interface: GE combo interface	9. Two Wi-Fi antenna interfaces

Ports

Table 3-120 Ports on the AR617VW

Port	Connector Type	Description	Available Components
Console interface	RJ45	The console interface can connect to an operation terminal for onsite configuration. • Standards compliance: RS232 • Working mode: duplex Universal Asynchronous Receiver/ Transmitter (UART) • Data equipment type: Data Circuit-terminating Equipment (DCE)	**Console cable**

Port	Connector Type	Description	Available Components
LAN interfaces: four GE electrical interfaces	RJ45	A GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • Standards compliance: IEEE802.3, IEEE802.3u, and IEEE802.3ab • Working mode: full-duplex (10/100/1000 Mbit/s auto-sensing) • Maximum distance: 100 m **NOTE** GEO is a management interface and is used for web-based management and email-based deployment. Ali LAN-side GE interfaces can be configured as WAN-side interfaces.	**Ethernet cable**

Port	Connector Type	Description	Available Components
WAN interface: VDSL interface	RJ11	A very-high-speed digital subscriber line (VDSL) interface transmits service data from a LAN to an upstream device at a high speed over a twisted pair. Standards compliance: • T1.413ANSI ADSL DMT issue 2 compliance • ADSL Annex A ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex M G.992.3 (ADSL2) and G.992.5 (ADSL2+) • ADSL Annex B ITU G.992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ADSL Annex J ITU G.992.3 (ADSL2), and G.992.5 (ADSL2+) • ITU G.993.2 (VDSL2) and supported profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b	**Universal telephone cable**

Port	Connector Type	Description	Available Components
		• VDSL2 Vectoring (G993.5). Only over POTS vectoring is supported.	
Two FXS interfaces	RJ11	An FXS interface is an analog subscriber line interface and can connect to an analog phone or fax machine. • Standards compliance: ITU Q.512 for the FXS interface • Dialing mode: DTMF in compliance with GB3378 • Bandwidth: 300 Hz to 3400 Hz	**Universal telephone cable**

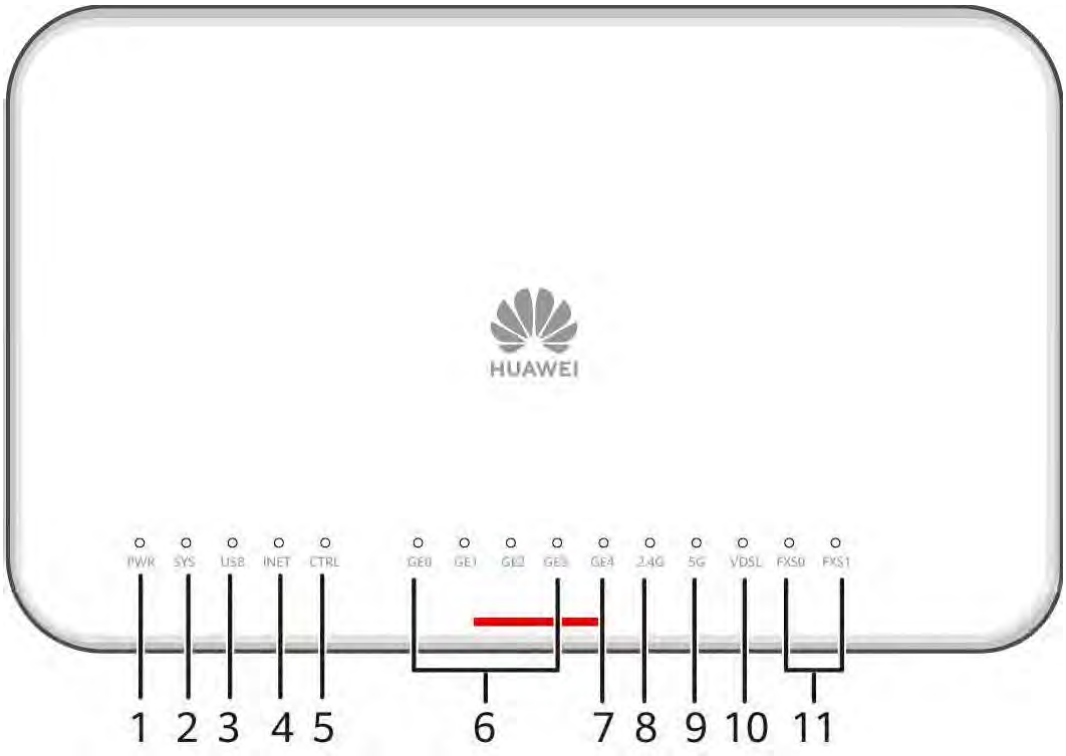
Port	Connector Type	Description	Available Components
WAN interfaces: GE combo interfaces	GE electrical interface: RJ45 GE optical interface: LC/PC	A GE combo interface consists of an optical Ethernet interface and an electrical Ethernet interface on the panel. The two interfaces have only one internal forwarding interface. The electrical and optical interfaces are multiplexed, and only either of them can work at a time. When either of the Ethernet interfaces is working, the other interface is shut down. • The GE electrical interface (10/100/1000 Mbit/s auto-sensing) transmits and receives services at 1O Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • The GE optical interface (100/1000 Mbit/s auto-sensing) transmits and receives services at 100 Mbit/s or 1000 Mbit/s.	• GE electrical interface: Ethernet cable • GE optical interface: optical module The following optical modules are supported: **FE SFP&eSFP optical modules** **GE eSFP optical modules** **GPON&EPON optical modules**

Port	Connector Type	Description	Available Components
		NOTE By default, a combo interface works in auto mode and automatically works as an optical or electrical interface.	
Two Wi-Fi antenna interfaces	RP-SMA-K (screw threads outside and a pin inside)	A Wi-Fi antenna interface connects to a Wi-Fi antenna to transmit and receive data. • Standards compliance: 802.11a/b/g/n/ac • Supported frequency bands: 2.4 GHz and 5 GHz • Supported rate: 866 Mbit/s • MIMO mode (Tx x Rx): 2 x 2 • Gain: 2.5 dBi/3.0 dBi • Supported services: Layer 2/Layer 3 wireless access, wireless encryption, and wireless security **NOTE** Wi-Fi antennas have been installed on Wi-Fi interfaces of a router before delivery and cannot be removed.	Wi-Fi antenna

Port	Connector Type	Description	Available Components
USB interface 2.0 (host)	USB 2.0 Type A	A USB interface provides up to 480 Mbit/s upload and download rates. • Standards compliance: USB 2.0 • Working mode: Host	USB 2.0-compliant USB flash drive

Indicators and Buttons

Figure 3-69 Indicators and buttons on the AR617VW



1,. PWR indicator	I 2. SYS indicator	13. USB indicator
4. iNET indicator	5. CTRL indicator	6. LAN (GE0 to GE3) interface indicators

7. GE combo interface indicator (GE4)	8. WLAN 2.4 GHz indicator (effective when the device works on the 2.4 GHz band)	9. WLAN 5 GHz indicator (effective when the device works on the 5 GHz band)
10. VDSL interface indicator	11. FXS interface indicators (FXS0 to FXS1)	-

Table 3-121 Indicators on the AR617VW

Silkscreen	Name	Color	Status	Description
PWR	PWR indicator	Green	Steady on	The system power supply is normal.
		-	Off	The system power is off.
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. The fault cannot be rectified automatically and requires manual intervention.
			Off	The system software is not running or is being reset.
USB	USB indicator	Green	Steady on	The system has been upgraded or configured using a USB flash drive.

Silkscreen	Name	Color	Status	Description
		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.
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 connected to the controller.
		Green	Blinking	The device is connecting to controller.
		-	Off	The device is not connected to the controller.
GE0 to GE3	LAN interface indicator (GE0 to GE3)	Green	Steady on	A link has been established on the corresponding LAN interface.

Silkscreen	Name	Color	Status	Description
		Green	Blinking	Data is being transmitted or received on the corresponding LAN interface.
		-	Off	No link is established on the corresponding LAN interface.
GE4	GE combo interface indicator (GE4)	Green	Steady on	A link has been established on the corresponding GE combo interface.
		Green	Blinking	Data is being transmitted or received on the corresponding GE combo interface.
		-	Off	No link is established on the corresponding GE combo interface.
2.4G	WLAN 2.4G indicator (effective when working on the 2.4 GHz band)	Green	Steady on	A link has been established
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down
5G	WLAN 5G indicator (effective when working on the 5 GHz band)	Green	Steady on	A link has been established

Silkscreen	Name	Color	Status	Description
		Green	Blinking	The link is transmitting data.
		-	Off	The link is shut down.
VDSL	VDSL interface indicator	Green	Steady on	A link has been established on the corresponding VDSL interface.
		Green	Blinking	A link is activating on the corresponding VDSL interface.
			Off	No link is established on the corresponding VDSL interface.
FXSO to FXS1	FXS interface indicators (FXSO to FXS1)	Green	Steady on	The corresponding FXS channel is being occupied by a call.
			Off	The corresponding FXS channel is idle.

Table 3-122 Buttons on the AR617VW

Silkscreen	Name	Description
RESET	Reset button	This button is used to reset the device. • To restore the factory settings, hold down the button for at least 5 seconds. • To reset the device, hold down the button for less than 5 seconds. Resetting the device will cause service interruption. Exercise caution when you press the Reset button.

Technical Specifications

Table 3-123 Technical specifications of the AR617VW

item	Specification
Installation type	• Work bench • Against the wall
Chassis height [U]	
Dimensions without packaging (H x W x D) [mm (in.)]	• Basic dimensions: 38.0 mm x 240.0 mm x 161.5 mm (1.5 in. x 9.45 in. x 6.36 in.) • Maximum dimensions: 41.4 mm x 278.6 mm x 161.5 mm (1.63 in. x 10.97 in. x 6.36 in.)
Dimensions with packaging (H x W x D) [mm (in.)]	90 mm x 370 mm x 297 mm (3.54 in. x 14.57 in. x 11.69 in.)
Weight with packaging [kg (lb)]	1.24 kg (2.73 lb)
Weight without packaging [kg (lb)]	0.63 kg (1.39 lb)
CPU	1.1 GHz, 2 Cores
Memory	1 GB
NAND Flash	1 GB
Console port	RJ45

Item	Specification
RTC	Supported
LAN ports	4 x GE electrical interfaces
WAN ports	1 x GE combo
Number of service board slots	0
MIC slots (default/maximum)	0/0
SIC slots (default/maximum)	0/0
WSIC slots (default/maximum)	0/0
XSIC slots (default/maximum)	0/0
Redundant MPUs	Not supported
RPS input	Not supported
PoE	Not supported
IP rating	IP20
MTBF [years]	55.65 years
MTTR [hours]	2 hours
Availability	0.9999958973
Typical power consumption [W]	18.SW (AC)
Maximum power consumption [W]	19.8W (AC)
Power supply mode	AC power adapter
Number of power modules	1
Rated input voltage [V]	11O V to 220 V, 50 Hz/60 Hz
Input voltage range [V]	90 V to 270 V, 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Maximum output power [W]	24W
Redundantpowersupp|	Not supported
Types of fans	None
Number of fan modules	0
Heat dissipation mode	Natural heat dissipation
Airflow	Natural heat dissipation
Noise at normal temperature (acoustic power) [dB(A)]	0 (Natural heat dissipation)

item	Specification
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) NOTE When the altitude is 1800 m-5000 m (5906 ft.-16404.2 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m (ft.)]	< 5000 m (16404.2 ft.)
Storage temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)
Overtemperature alarm	Supported

3.3.23 AR617VW-LTE4 (50010498)

Overview

Table 3-124 Basic information about the AR617VW-LTE4

item	Details
Description	AR617VW-LTE4, 1*GE COMBO WAN, 4*GE LAN, 1*VDSL2, 2*FXS, 1*USB 2.0, 1*LTE, Wi-Fi 2.4G+5G
Part Number	50010498
Model	AR617VW-LTE4
First supported version	V300R019C10
Remarks	AR617VW-LTE4 (part number: 50010498-001): available in V300R021C10 and later versions Devices manufactured after March 31, 2021 support only V300R019C13 and later versions.

