SIEMENS

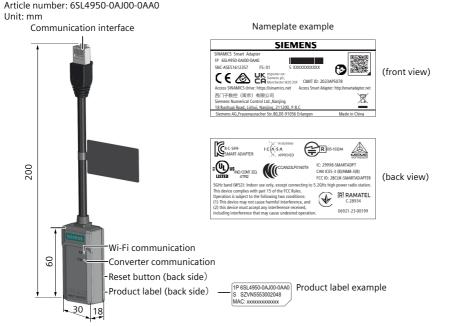# SINAMICS Smart Adapter Compact Operating Instructions

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. For more information about industrial security, please visit https://www.siemens.com/global/en/products/automation/topic-areas/industrial-cybersecurity.html.

Functionality

SINAMICS Smart Adapter allows Wi-Fi-based access to the Web server of a supported drive system from a PC or a mobile device, making it easier to perform drive commissioning, diagnostics, and maintenance. Siemens recommends that you temporarily connect SINAMICS Smart Adapter to the drive for the intended use.

Overview

Article number: 6SL4950-0AJ00-0AA0
Unit: mm

Communication interface

Nameplate example

(front view)

(back view)

Wi-Fi communication
Converter communication
Reset button (back side)
Product label (back side)

1P 6SL4950-0AJ00-0AA0
S SZVN5553002048
MAC: xxxxxxxxxxxxx

Product label example

Note:
You can scan the QR code on the label using a standard code scanner or the "Industry Online Support" app to get product data, manuals, declarations of conformity, certificates and other information about your product.

Reset button description

- Resetting Wi-Fi configuration or administrator password
  To reset the Wi-Fi configuration to factory settings or reset the administrator password of the Smart Adapter, hold down the button for more than 3 seconds in power-on state until the Wi-Fi communication LED flashes yellow.
- Restoring firmware version
  Proceed as follows to restore the firmware of the Smart Adapter to the factory version:
  1. Hold down the reset button in power-off state, and then connect the Smart Adapter to the drive.
  2. Keep the button pressed for more than 3 seconds after the connection.

A5E51879348A

LED description

LED	Status	Description
Drive communication	Solid red	The communication between Smart Adapter and the drive system is not established.
	Solid green	The communication between Smart Adapter and the drive system is established.
Wi-Fi communication	Solid red	The network communication is initializing.
	Solid yellow	The network initialization completes, but Smart Adapter is not connected to a PC or mobile device.
	Solid green	The connection between Smart Adapter and the PC or mobile device is set up. You can open the Web pages now.
	Flashing yellow	Smart Adapter requires a restart because an upgrade completes or the Wi-Fi configuration is modified.
	Alternating flashing red and yellow	Smart Adapter is upgrading.

System requirements

Supported operating systems	Recommended browsers
• Windows • ≥ Mac OS 10.15 • ≥ Apple iOS 12.2 • Android	• ≥ Google Chrome 69.0 • ≥ Microsoft Edge 80.0 • Safari • ≥ Opera 56.0

Establishing initial wireless network connection

1. Connect the Smart Adapter to the X127 interface of the supported drive.
2. Activate the Wi-Fi interface inside your PC or mobile device. Make sure that you have enabled the automatic IP settings.
3. Search the wireless SSID of the Smart Adapter: SmartAdapter-xxxxxx. (The "xxxxxx" stands for the last six characters of the Smart Adapter's MAC address printed on the product label.)
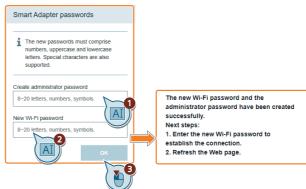   To avoid connecting to unsafe Wi-Fi networks that have the same SSID as your Smart Adapter has, check the properties of the Wi-Fi network and make sure that its MAC address is consistent with the MAC address printed on the product label.
4. Enter the wireless network password to launch the connection (default password: 12345678).
   Make sure that the Wi-Fi network of the Smart Adapter is the only network your PC or mobile device connects to; otherwise, the Web server of either the Smart Adapter or the drive may not be accessed via domain names.
5. In a supported browser, enter the Web site (https://sinamics.net) to access the drive's Web server. To configure the Smart Adapter, enter the Web site (http://smartadapter.net).
6. Enter the new Wi-Fi and administrator passwords in the pop-up window, reconnect the wireless network, and refresh the Web page.

Note:
To achieve better network security, enter a password of 8 to 20 characters that contains numbers, lowercase and uppercase letters, and special symbols (_, -, ~, ! , @, #, $, %, ^, &, and *).
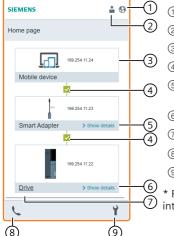

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Accessing the drive's Web server

After you have established wireless network connection between the Smart Adapter and your PC or mobile device, access the Web server integrated in the connected drive with one of the following two methods:

• Enter the Web site (https://sinamics.net) in a supported browser.

• Enter the Web site (http://smartadapter.net) and then click "Drive" on the home page of the Smart Adapter.

If you are unable to access the Web server or the Wi-Fi connection between your device and the Smart Adapter is unstable, change the IP address of the drive and make sure that the IP address does not fall into the range from 169.254.0.0 to 169.254.255.255.

For more information about the connected drive, refer to the relevant Operating Instructions.
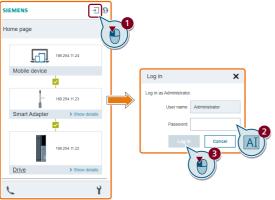
Configuring the Smart Adapter

Home page

① Display language selection

② Administrator login

③ Mobile device information display

④ Network connection status indication*

⑤ Viewing Smart Adapter information (device name, article number, and firmware version)

⑥ Viewing drive information (drive name and type)

⑦ Accessing the drive's Web server

⑧ Viewing support information

⑨ Configuring optional Web access settings

* Reconnect the wireless network of the Smart Adapter if the connection is interrupted.

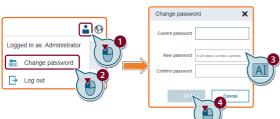## Configure optional Web access settings (Home page > 🔧)

• **Logging in as administrator**

Note:
1. To configure optional Web access settings, first log in as an administrator.
2. The Smart Adapter's Web server automatically logs you out after 15 minutes of inactivity.
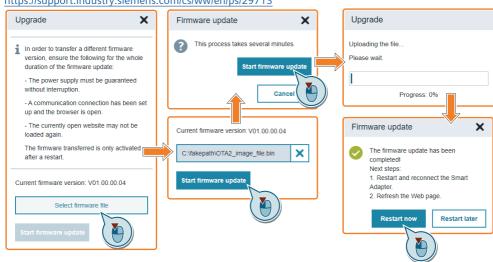
• **Changing administrator password**

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Settings page

Home page

• Configure Wi-Fi settings

Wi-Fi configuration

Restart the Smart Adapter to activate the new Wi-Fi settings.

Wi-Fi SSID
SmartAdapter-B89CCC

Password
••••••••

Security   Medium

Frequency channel
3 (2.4G)

Signal strength   22
1(weak)   31(strong)

Apply   Discard

• Setting support contact

Support settings

Heading
zhangsan

Email
Zhangsan@siemens.com

Telephone
025-87119100

Apply   Discard

• Viewing event logs

Logs

2022-03-29 14:17:59 Support settings changed.
2022-03-29 14:19:24 Wi-Fi configuration changed.

• Performing firmware upgrading
Before upgrading the firmware, download the firmware file from the link:
https://support.industry.siemens.com/cs/ww/en/ps/29713

Upgrade

In order to transfer a different firmware version, ensure the following for the whole duration of the firmware update:

- The power supply must be guaranteed without interruption.

- A communication connection has been set up and the browser is open.

- The currently open website may not be loaded again.

The firmware transferred is only activated after a restart.

Current firmware version: V01.00.00.04

Select firmware file

Start firmware update

Firmware update

This process takes several minutes.

Start firmware update

Cancel

Current firmware version: V01.00.00.04

C:\fakepath\OTA2_image_file.bin

Start firmware update

Upgrade

Uploading the file...
Please wait.

Progress: 0%

Firmware update

The firmware update has been completed!
Next steps:
1. Restart and reconnect the Smart Adapter.
2. Refresh the Web page.

Restart now   Restart later

• Restoring factory settings

Restore factory settings

Factory restore resets all parameters of the Smart Adapter to the factory settings.
Erase all logs

Restore factory settings

Restore factory settings

Do you want to restore the factory settings?

Restore factory settings

Cancel

Restore factory settings

The factory settings restored successfully.

OK

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- **Restarting**

Viewing support information (Home page > 📞)

Technical specifications

Surrounding temperature	Storage and transport	-40 °C ... 70 °C
	Operation	-10 °C ... 40 °C
Relative humidity		< 95%, without condensation
Net weight		31 g
Rated voltage		24 V DC
Wireless technology and frequency range*		2.4 GHz: Wi-Fi 2400 MHz ... 2483.5 MHz; 5 GHz: Wi-Fi 5150 MHz ... 5250 MHz
Wireless modulation type		2.4 GHz: 802.11 b/g/n; 5 GHz: 802.11 a/n
Type of modulation		DSSS (DBPSK, DQPSK, CCK), OFDM (BPSK, QPSK, 16QAM, 64QAM)
Maximum wireless communication distance		50 m
Maximum antenna gain		2.4 GHz: 1.2 dBi; 5 GHz: 1.6 dBi
Maximum radio frequency output power		2.4 GHz: 18 dBm; 5 GHz: 15 dBm
Protection		IP 20/UL Open Type
Shock and vibration		3M1
* The actual frequency range may vary depending upon market.		

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Regulatory information

 R-C-S49- SMART ADAPTER	**South Korea** 이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.
	The United Kingdom The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range.
 ANATEL 06921-23-00199	**Brazil** This device must not be protected against harmful interference and it may not cause interference in authorized systems (see below for corresponding text in Portuguese): Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.
	United Arab Emirates The device fulfills the requirements for TRA.
	Australia and New Zealand (RCM formerly C-Tick) The device fulfills the requirements for RCM.
	Ukraine The device fulfills the requirements for UkrCEPRO.
Complies with IMDA Standards DB01752	**Singapore** The device fulfills the requirements for IMDA.
	「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」 應避免影響附近雷達系統之操作。高增益指向性天線只得應用於固定式點對點系統。

CE	**Radio Equipment Directive 2014/53/EU** SINAMICS Smart Adapter is in compliance with Radio Equipment Directive 2014/53/EU. The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in the following countries: | BE	BG	CZ	DK	DE	EE	IE	EL	ES
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FR	HR	IT	CY	LV	LT	LU	HU	MT
NL	AT	PL	PT	RO	SI	SK	FI	SE
NO	IS	LI	CH	TR	UK(NI)				 You can download the certificate from the following link: Declaration of conformity (https://support.industry.siemens.com/cs/ww/en/ps/29713) The CE Declaration of Conformity is held on file available to the competent authorities at the following address: Siemens AG Digital Industries Motion Control Frauenauracher Straße 80 DE-91056 Erlangen Germany
FCC	**The United States** FCC ID: 2BCUK-SMARTADAPTER Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help. This equipment complies with radio frequency exposure limits set forth by the FCC for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the device and the user or bystanders. This device must not be co-located or operating in conjunction with any other antenna or transmitter.
CÔNG TY TNHH SIEMENS B2100037 ICT	**Vietnam** The device fulfills the requirements for ICT.
	Israel <div dir="rtl">מספר אישור התאמה מטעם משרד התקשורת: 51-99862 חל איסור לבצע פעולות במכשיר שיש בהן כדי לשנות את תכונותיו האלחוטיות של המכשיר, ובכלל זה שינויי תוכנה, החלפת אנטנה מקורית או הוספת אפשרות לחיבור לאנטנה חיצונית, בלא קבלת אישור משרד התקשורת, בשל החשש להפרעות אלחוטיות.</div>

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	Canada This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. This equipment complies with radio frequency exposure limits set forth by the Innovation, Science and Economic Development Canada for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the device and the user or bystanders. This device must not be co-located or operating in conjunction with any other antenna or transmitter. Cet équipement est conforme aux limites d'exposition aux radiofréquences définies par la Innovation, Sciences et Développement économique Canada pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre le dispositif et l'utilisateur ou des tiers. Ce dispositif ne doit pas être utilisé à proximité d'une autre antenne ou d'un autre émetteur.
	Thailand เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.
	CMIIT ID: 2023AP5078
	For environmentally-friendly recycling and disposal of your old device, contact a company certified for the disposal of waste electrical and electronic equipment, and dispose of the old device as prescribed in the respective country of use.