Ethernet switch, 8xPoE, 2xSFP

PRA-ES8P2S

en Release notes

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1 Introduction

The PRA-ES8P2S Ethernet switch, 8xPoE, 2xSFP is an OEM switch made by Advantech to use in Public Address and Voice Alarm systems. The switch is a preconfigured version of the EKI-7710G-2CP-A1801-T switch optimized for PRAESENSA.

Notice!

The PRA-ES8P2S switch has two hardware versions that use different firmware. These files can be downloaded together from the catalog.

- For the switch with the number F.01U.352.102, use the firmware *AE_X.XX.XX*.
- For the switch with the number Z.01X.003.729, use the firmware *BE_X.XX.XX*.

1.1 Release history

Release date	Released version	Reason
2022-09	1.01.08	Official release.
2023-03	1.01.09	Official release.
2023-07	1.01.10	Official release.
2025-05	1.03.03	Official release.
2026-03	1.03.05	Official release.
2026-07	1.03.06	Official release.

2 Added functionalities

2.1 Release 1.03.06

Release 1.03.06 solves some vulnerabilities and improves compliance with UR E27 / IEC 62443-4-2:

- The hash algorithm of the password of the local user changes to SHA-256 automatically if the user successfully logs in with an MD5 account.
- The speed/duplex of the copper port is modified to force Auto/full in the default configuration.
- An issue with the reset button of the PoE model is fixed.

2.2 Release 1.03.05

Release 1.03.05 makes it impossible to delete the last administrator account.

2.3 Release 1.03.03

Release 1.03.03 solves some vulnerabilities:

- The SSL certificate chain is updated so that it is signed with a more secure hashing algorithm.
- A weak session token in the web-interface is fixed.

Notice!
The upgrade from 1.01.10 to 1.03.03 and higher refer to these instructions: *Upgrade from 1.01.10 to 1.03.03 or higher, page 6*.

2.4 Release 1.01.10

Release 1.01.10 solves some vulnerabilities found in the PRA-ES8P2S switch.

2.5 Release 1.01.09

Release 1.01.09 solves the unplanned restart of the PRA-ES8P2S that happens when SNMP monitoring is enabled. Download the updated firmware from www.boschsecurity.com.

2.6 Release 1.01.08

Release 1.01.08 solves some vulnerabilities found in the PRA-ES8P2S switch, including a buffer vulnerability. For more details, refer to https://psirt.bosch.com/security-advisories/bosch-sa-247053-bt.html.

3 Notices

3.1 Upgrade from 1.01.10 to 1.03.03 or higher

To upgrade from firmware 1.01.10 to 1.03.03 or later:

1. Login to the switch with https://.
2. Make a backup of the running configuration or of the startup configuration.
3. Upgrade the firmware. Do not reboot the switch.
4. Reset the switch to the default settings. Do not reboot the switch.
5. Restore the configuration with the previous backup file.
6. Reboot the switch.
7. Login to the switch with https://.

3.2 Web-server cannot be accessed (1.01.06 and lower)

Initially, for security reasons, the web-server in the PRA-ES8P2S switch with firmware version 1.01.06 and below cannot be accessed for configuration.

To access web-server

1. Connect a USB 2.0 to serial converter to the console port of the switch.
2. Plug the USB into the PC.
3. Start a terminal program such as uCon.
4. Locate the communication port of the converter.
5. Setup a connection with the following settings:
   - **Bits per second (BAUD)**: 115,200.
   - **Number of bits**: 8.
   - **Parity**: None.
   - **Stop bits**: 1.
6. Click **Enter**.
7. Log in with the default credentials: Bosch, mLqAMhQ0GU5NGUK.
   - A prompt appears with **switch#**.
8. In the prompt, type **conf**.
9. Click **Enter**.
   - The prompt shows **switch(config)#**.
10. In the prompt, type **ip https**.
11. Click **Enter**.
    - The prompt shows **switch(config)#**.
12. In the prompt, type **exit**
13. Click **Enter**.
    - The prompt shows **switch#**.
14. In the prompt, type **save**.
15. Click **Enter**.
    - The terminal shows a line without prompt and the word **Success**. On the next line the prompt, **switch#** appears.
16. In the prompt, type **reboot**
17. Click **Enter**.
    - The switch reboots.
18. Set your PC network to a DHCP-assigned address or to a fixed link-local address with subnet 255.255.0.0.
19. Enter https://169.254.255.1/ in the web browser of the interface.
20. Click **Enter**.

21. Log in with the default credentials: Bosch, mLqAMhQ0GU5NGUK.
    – A prompt appears with **switch#**.



Caution!
To prevent security breaks, disable the web-server when you no longer need it for configuration purposes. Otherwise, the web-server remains active and prone to attacks. To disable the web-server, follow the previous procedure, but replace **ip https** by **no ip https** in the relevant steps.

4 Use latest software

Before operating the device for the first time, make sure that you install the latest applicable release of your software version. For consistent functionality, compatibility, performance, and security, regularly update the software throughout the operational life of the device. Follow the instructions in the product documentation regarding software updates.

The following links provide more information:

- General information: https://www.keenfinity-group.com/xc/en/support/product-security/
- Security advisories, that is a list of identified vulnerabilities and proposed solutions: https://www.keenfinity-group.com/xc/en/support/product-security/security-advisories.html

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