

EDGE IPC UNO-127 8GB FLECS Quick Installation Guide

Address of the manufacturer:
SALZ Automation GmbH
Max-Planck-Str. 64
32107 Bad Salzufflen, Germany
Email: support@salz-automation.com



Overview

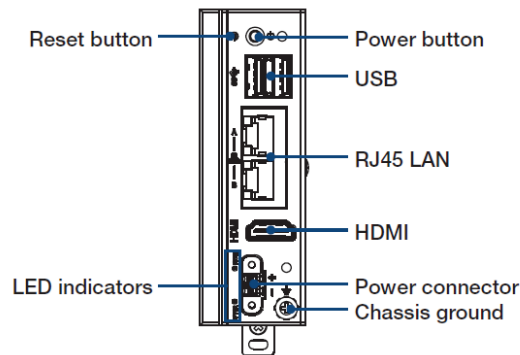
Compact, Fan-less Edge Controller with Intel® Atom® Processor, SALZ Automation Software- PURE/FLECS, 8GB RAM, 64GB eMMC, 2 x LAN, 2 x USB, and 1 x HDMI

Function

Intel® Atom® x6413E processor, 8 GB DDR4 RAM, 64 GB eMMC storage, 256 GB SSD, 2 x LAN, 2 x USB, and 1 x HDMI, 1 x full-size mini PCIe

1. Frontview

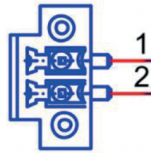
Front View of EDGE IPC UNO-127 8GB FLECS



Legend of Configuration for the EDGE IPC UNO-127 8GB FLECS CPU Module

No.	Component	Description
1	USB Ports	Interfaces USB 3.2 for peripherals such as mouse.
2	RJ45 Ethernet	Connecting to local networks, internet or EtherCAT.
3	HDMI	Digital interface for a monitor with audio output.
4	Chassis Ground	Screw to fix the shielding ground connection.
5	Reset Button	Hidden button for PC hardware reset function.
6	Power Button	Button for PC power function.
7	PWR/RUN LEDs	Diagnostic LEDs for CPU module.
8	Power Terminal	2-pin terminal for 24 V DC power.

2. Wiring Power Input



No.	Name	Function
1	+	Power IN V+ (24 V DC)
2	-	Power IN V- (GND)

EDGE IPC UNO-127 8GB FLECS comes with a screw connector that carries 24 V DC external power input, and features reversed wiring protection. Therefore, the system will not cause damage from reversed polarity of ground lines and power lines.

3. Environmental limits

Operating Temperature	-20 ... 60 °C @ 5 ... 85% RH with 0.7 m/s airflow (without expansion)
	-20 ... 55 °C @ 5 ... 85% RH with 0.7 m/s airflow (with mPCIe + EtherCAT expansion)
Storage Temperature	-40 ... 85 °C (-40 ... 185 °F)
Ambient relative humidity	10 ... 95% @ 40 °C (non condensing)

4. Software Details and Configuration

Overview

This quick installation guide will explain the operation of the software SALZ Automaiton System Software 'FLECS'. 'FLECS' is the software for the AMAX 80-C, AMAX 70 controllers, and UNO 127 Series Edge Devices from SALZ Automation. The FLECS version can be upgraded from 'PURE' version on the controllers and is easy to understand and work with. It can be accessed by using the specific IP in the internet browser on the PC. The GUI is user friendly, containing info-graphic components for optimal usage.

The 'FLECS' automation system adds an 'APP STORE' to 'PURE' version. Applications/Images/Containers can be deployed on the controller from this online store directly. And similar to 'PURE', applications can also be installed without internet as well using a USB flash drive or using locally stored files on your PC.

This quick installation guide will walk you through the processes and methods of using the software efficiently and conveniently.


1. Accessing the Software

Once turned on, the controller can be accessed by ethernet ports. Connect the PC to the controller to one of the two ethernet ports. Port 1: DHCP / Port 2: Static IP- address **192.168.221.10**
Open the internet browser to access the dashboard using the IP.

Default Credentials:

Username	admin
Password	changeme

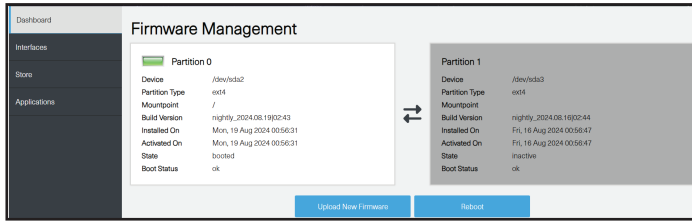
2. User Options

User options can be found after clicking  on the top right corner of the browser. You can 'Change User Password' and 'Create User' in this window.

3. Dashboard

The Dashboard contains, CPU, Memory, and Disk usage. It also has a realtime graphical representation of the same. App summary shows you the installed applications and their status. System Information gives you the deatils of the firmware and the ability to manage/change it.

4. Firmware Management



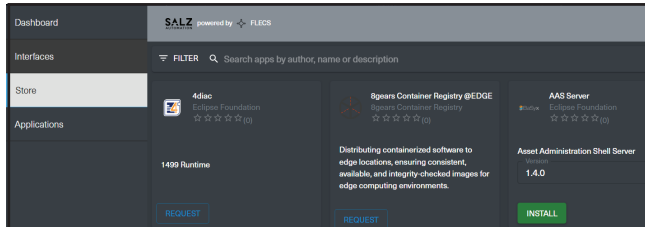
SALZ controllers have two memory partitions where two different versions of firmware can be installed. Switching between the firmware is easy and can be done with only one click.


- New firmware can only be uploaded on the active memory partition.
- The existing firmware version moves to the inactive memory partition once the new firmware is uploaded.

5. Interfaces

This section contains 'Network Connection Settings' where the configuration of Backplane, Port 1, and Port 2 of the controller can be edited.

6. Store



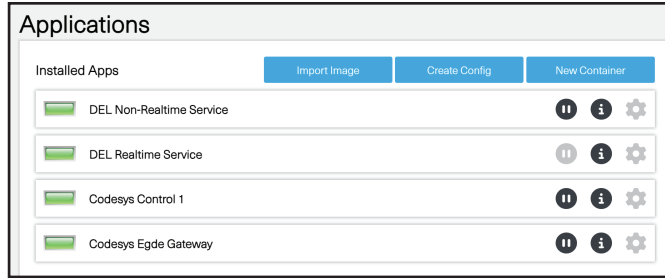
1. The applications can be installed using the 'STORE' option. This navigates to the FLECS Store online, where a wide variety of containerized applications are ready to install.
2. To install any application, simply click **INSTALL** and the app is downloaded.
3. Other options are: 
4. Help
5. Light/ Dark mode
6. Exit




Points to remember:

- FLECS Store needs to be subscribed as it is an add-on for PURE version.
- PURE version is always available on the Controllers. Hence, the applications can always be installed using the foregoing offline method.

7. Applications

This section contains an overview of the installed applications on the controller.



-  This button lets you stop the application.
-  This button gives you information of the individual apps.
-  This button lets is to edit the settings of the application.

7.1 Button

This option allows you to import the images of the applications (.tar files) on the controller from your local device, USB etc.

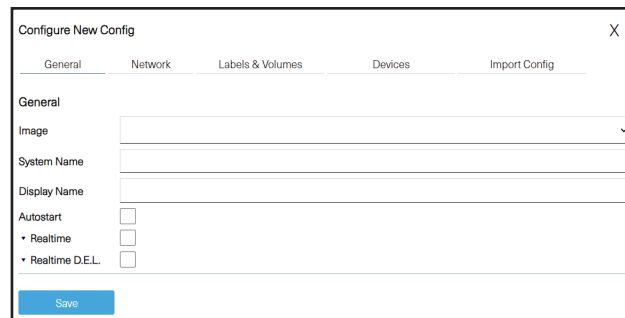
The source of the images can be the SALZ Automation website or the dockerhub desktop application as well.

For more information on this visit:

[Learn about SALZ Software Center](#)

7.2 Button

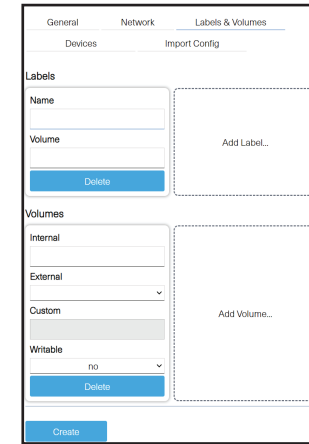
This option lets you create configuration file (.json) for the image of your choice.



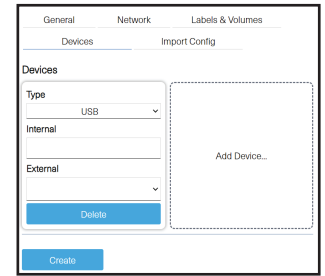
7.2.1 - General: Select image, give it system and display name.

7.2.2 - Network: Set the 'Ports' and 'Network' infrastructure.

7.2.3- Labels & Volumes:



7.2.4- Devices:



7.2.5- Import Config:



Steps 7.2.3 lets you set labels and volumes, 7.2.4 lets you set the device configurations, and with 7.2.5 you can easily import the configuration files customised by you.

7.3 Button

This option allows you to create containers from the imported images. Multiple instances/containers can be created from one single image imported in the controller.

- 1: Select the image for which you want to create a container.
- 2: Create or import the configurations as shown in 7.2.
- 3: Click 'Create'.

Visit www.salzautomation.com for more information.