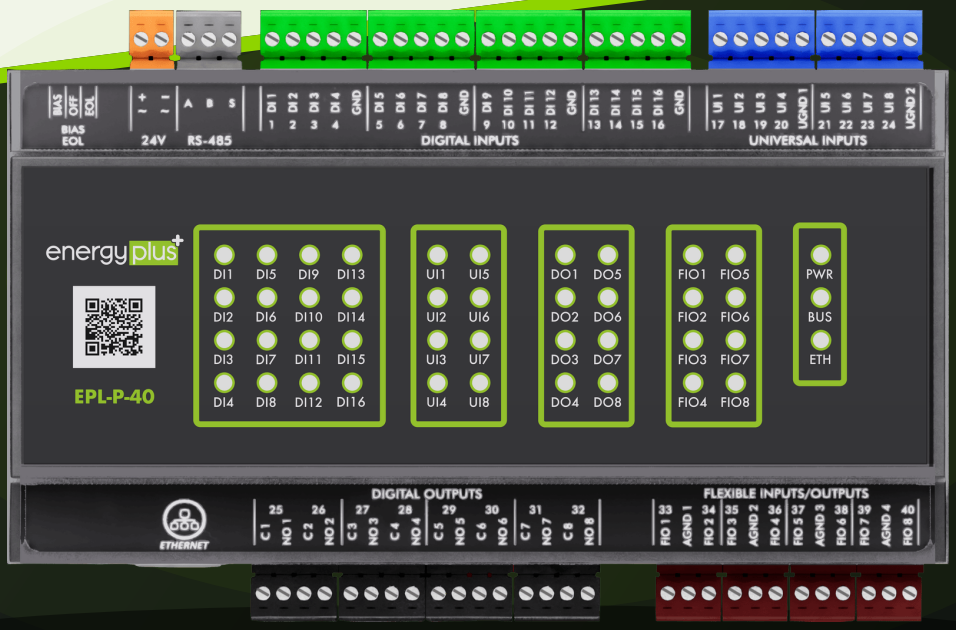
energyplus

EPL-P-40

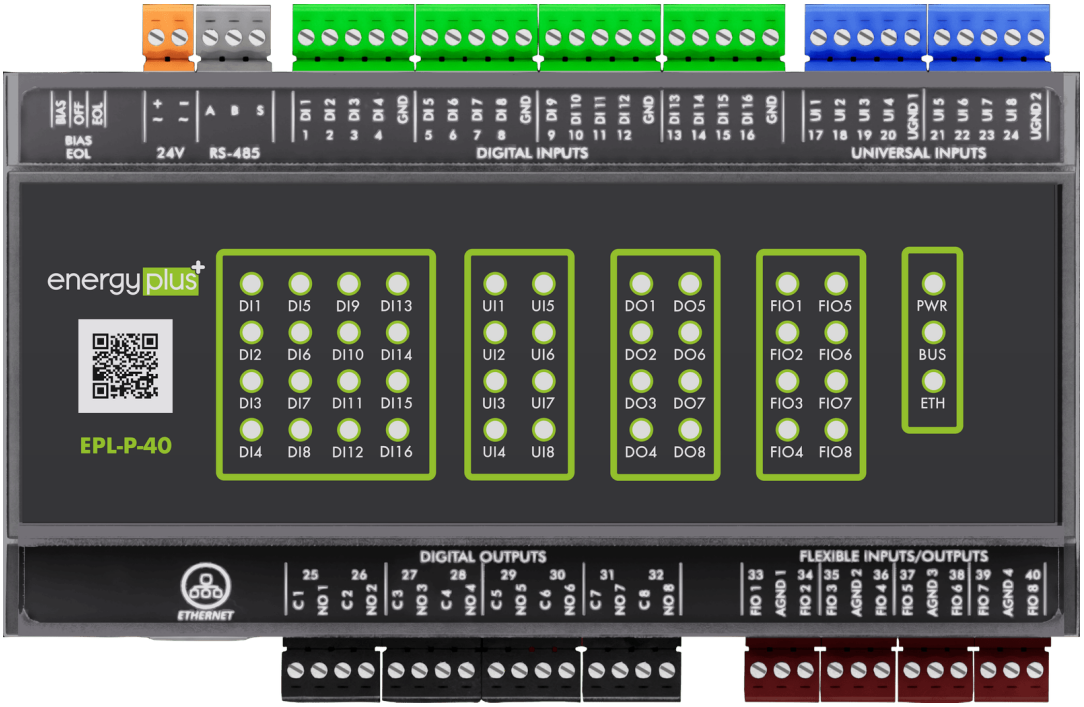
Quick Start Guide

Sedona controller commissioning summary

Firmware V2.0.3 | October 2026



EPL-P-40 is a 40-point Sedona-based controller platform that runs the local control application on the device.



Purpose

Use this form to commission the EPL-P-40 controller quickly on site. Device behavior is defined by the running Sedona application, not by a fixed register table. Modbus, BACnet and MQTT communication is also set up with the communication components inside this application.

Safety and Pre-Checks

Check	Description
Authorized personnel	Mounting, live programming, persistent saving and commissioning must be performed by authorized technical personnel.
Power state	Disconnect power from the device before making terminal connections.
Power supply	Use a 24 Vac ±20% or 21..30 Vdc power supply.
Application package	The application, kit and manifest set to be installed must match the project package.
Access credentials	The initial access credentials are delivered with the device; do not share them with unauthorized persons.
License	A device-specific license code must be ready for the I/O, Modbus and BACnet components.
Label check	Verify the product name, serial number and Ethernet MAC address on the product label.

Quick Commissioning Sequence

1. Seat the device on the DIN rail and complete the cabinet connections.
2. Connect the power supply, Ethernet, RS-485 and I/O terminals according to the project drawing.
3. Power up the device; check that the PWR LED on the front panel is lit and that the Ethernet link is up.
4. Place the service computer on the same IP network as the device.

5. Log in to the web interface with the initial access credentials and change the administrator password.
6. Configure the project IP settings and the channel modes in the web interface.
7. Open a SOX device session with EnergyPlus Workbench.
8. Check kit and manifest compatibility; if required, enter the license code in the platform component.
9. Edit blocks, links and slot/property values live in the active app tree and on the wiresheet.
10. Test live values, links and command behavior.
11. Once the changes are verified, save the application to persistent memory and take a project backup.
12. If required, open a direct device connection in the Niagara N4 engineering interface from the Open Device menu with the Sox Connection connection type, or discover the device with the station driver.
13. On the Niagara side, import the points and complete the live sheet check and the provisioning steps.
14. At the end of commissioning, disable BLE from the web interface if it will not be used.

Factory Network and Label Information

Item	Value
Default IP address	192.168.1.160 (static)
Subnet mask / gateway	255.255.255.0 / 192.168.1.1
Local network name (mDNS)	epl-p-40.local
Ethernet MAC address	Device-specific; verify it in the Eth. MAC Address field on the product label.
Serial number	Device-specific; verify it in the S/N field on the product label.

For first access, place the service computer on the same IP network. If the device IP settings have been changed, verify them against the site records or the product label.

Factory network settings: static IP 192.168.1.160, subnet mask 255.255.255.0, gateway 192.168.1.1. The web interface runs over HTTP (port 80); EnergyPlus Workbench and the Niagara SOX connection run over UDP 1876.

Tools

Tool	Use
EnergyPlus Workbench	Live Sedona wiresheet programming over SOX, runtime monitoring, persistent saving and service operations.
SOX connection	Live access to the Sedona application running on the device.
eplus-rt	Niagara runtime driver layer; device, network, point, schedule, SOX gateway/tunnel, user sync and provisioning components.
eplus-wb	Niagara N4 engineering tools; Sox Connection and Sox Tunnel Connection under Open Device, Device Manager, Point Manager, Wire/Slot/Link Sheet, Application Manager, Backup/Restore Tool, Kit Manager and Manifest views.
Project package	With EnergyPlus Workbench, the application, kit/manifest compatibility, backups and service notes are tracked as a single project package.
Web interface	Network settings, channel engineering, live values, file operations, software update, administrator password and BLE setting.
BLE	Identifying and monitoring the device on site with the mobile app.

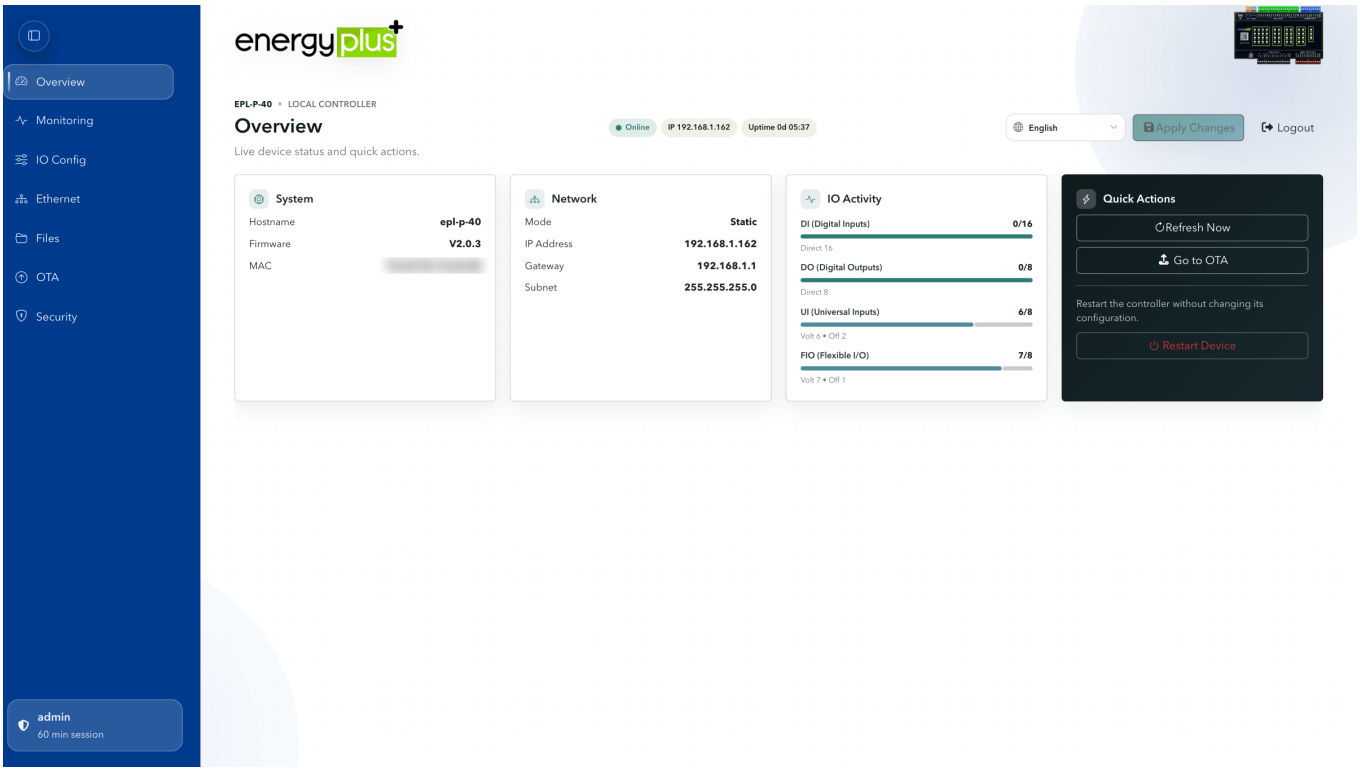


Figure 1. Web interface: overview

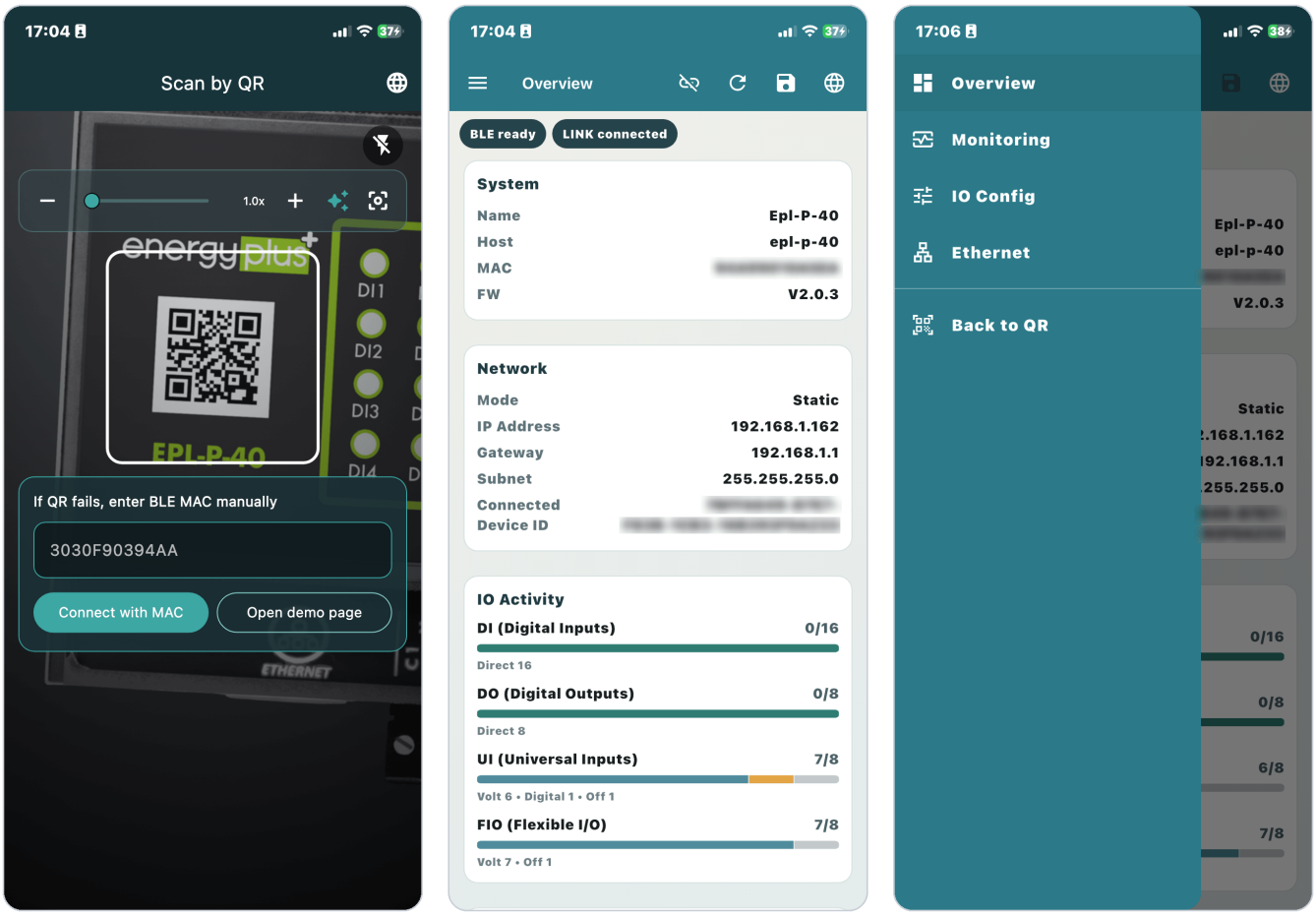


Figure 2. Mobile app: QR connection, overview and menu

Application Check

Check	Description
Kit compatibility	The platform and I/O kits must belong to the same family as the project package.
License	The I/O and communication components must not be in the NOT LICENCED / Not Licensed state.
Wiresheet	The physical DI, UI, DO and FIO points must be connected correctly to the application blocks.
Live value	Compare sensor, contact and output values with the actual field behavior.
Command test	Verify relay and FIO commands with a safe test scenario.
Backup	At the end of commissioning, back up the active application and the project package.

Niagara Quick Check

Topic	Check
Module installation	The eplus driver family and the eplus-rt / eplus-wb files must be installed in Niagara.
Direct connection	Without a station, a device SOX session can be opened by selecting Sox Connection from the Open Device menu.
Network	If station integration is used, create a EnergyPlus network.
Device discovery	The device is discovered over its IP/SOX access or added manually.
Point manager	The available point structure of the device is imported into the station.
Programming	The live Sedona application structure is checked with the Wire/Slot/Link Sheet.
Provisioning	The Application Manager, Backup/Restore Tool and Kit Manager flow is verified.
Schedule / user	If required, schedule and user synchronization is performed.

Handover Check

No.	Check	Record
1	IP address and device label recorded	
2	Firmware and kit versions recorded	
3	Active Sedona application backed up	
4	Wiresheet live value test completed	
5	Niagara driver point discovery, live sheet check and provisioning flow completed	
6	Administrator password changed, web access tested and BLE state recorded	

Technical Specifications

Specification	Value
Local I/O capacity	16 DI (DI1..DI4 counter inputs), 8 UI, 8 DO relay outputs, 8 FIO (flexible input/output)
UI measurement resolution	22 bit
Communication interfaces	1 × Ethernet RJ45 (10/100 Mbit/s), 1 × RS-485, Bluetooth LE (service and commissioning)
BACnet vendor ID	1600 (registered with ASHRAE)
Supply voltage	24 Vac ±20% or 21..30 Vdc

Specification	Value
Nominal power consumption	5 VA
Supply class	Class 2
Protection and temperature class	IP20 enclosure protection, T50 operating class
Operating environment	0..50 °C, 5..95% relative humidity (non-condensing)
Storage environment	-20..70 °C, 5..95% relative humidity (non-condensing)
DO relay output rating	5 A @ 277 Vac or 3 A @ 30 Vdc, resistive load
FIO analog output range	0..10 V or 2..10 V selectable; maximum load current 20 mA per channel
Mounting	DIN rail (EN 60715, 35 mm), cabinet mounting
Enclosure dimensions (width × height × depth)	175 mm × 112 mm × 60 mm