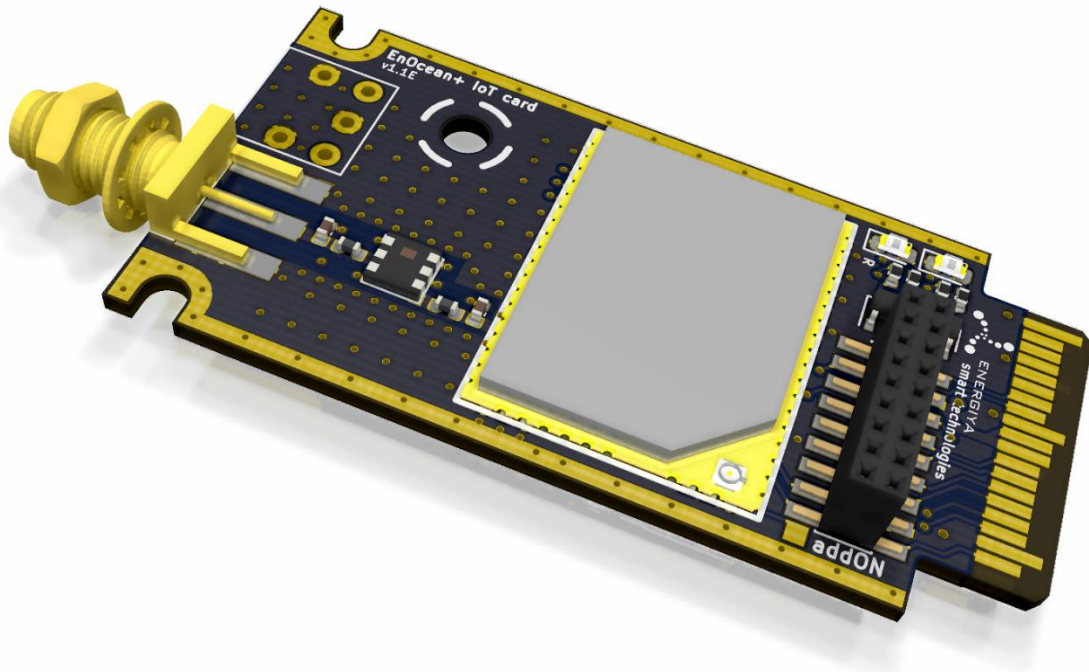


Energiya

EnOcean +

Octave integration



Octave™

Octave installation procedure

- 1) Insert Energiya EnOcean IoT card to FX30/FX30S device.
- 2) Install / start Energiya software.

After two initial steps Energiya will appear in Octave:

The screenshot shows the Octave web interface. On the left is a sidebar with navigation options: DEVICE (Details, Resources, Services, Observations, Edge Actions, Streams, Blueprint), CLOUD (Develop in the cloud), DEPLOYMENT (Manage fleet), MONITORING (Monitor fleet), and ADMINISTRATION (What's new, Documentation, Forum). The main panel is titled 'Resources' for device 'FX30 1'. It features a table with columns: Name, Last reported value, Report date, and Configured value. The 'Energiya/' resource is expanded, revealing a list of sub-resources. The 'virtual/config' resource is highlighted with a red box.

Name	Last reported value	Report date	Configured value
Energiya/			
actions/console	—	—	—
canopen/config	—	—	—
cloudInterface/			
diagnostic/			
io/			
location/			
modbus/			
orp/			
usp/			
util/			
virtual/config	—	—	—

When Energiya → settings is expanded, below options will appear:

This screenshot shows the 'settings/' resource expanded under 'Energiya/'. It displays a list of configuration parameters with their current values and configured values. The 'addon_type' is set to 4, 'enable' is true, and 'secure' is false. The 'virtual/config' resource is also visible at the bottom of the list.

Name	Last reported value	Report date	Configured value
Energiya/			
addon_gpio/			
sensors/			
settings/			
addon_type	4	~ 8h	4
clear	—	—	—
description	—	~ 8h	—
enable	true	~ 8h	—
learn	—	—	—
secure	false	~ 8h	—
actions/console	—	—	—
canopen/config	—	—	—
cloudInterface/			

- addon_type** – value 0 : no addON,
value 1 : 4 inputs addON,
value 2 : 4 outputs addON,
value 3 : 2 inputs 2 outputs addON,
value 4 : 8 inputs addON.
- clear** – double click on the trigger removes all connected EnOcean sensors.
- description** – free text. Friendly name of the unit.
- enable** – value true : makes the unit enabled,
value false : makes the unit disabled.
- learn** – double click on the trigger switches the unit to 'Learn mode'. When 'Learn mode' is enabled, green LED is ON on FX30. 'Learn mode' is active 60s.
- secure** – value true : allows only secure connection,
value false : allows all connections.

3) Activate 'Learn mode' and add sensors to Octave by pressing 'Learn button' on sensors.

4) Enter EEP to each sensor.

When one or more sensors are added sensors will appear in Octave, below options resources will be displayed:

The screenshot shows the Octave web interface. The top bar displays 'Octave' and 'FX30 1'. The sidebar on the left contains navigation links: DEVICE (Details, Resources, Services, Observations, Edge Actions, Streams, Blueprint), CLOUD (Develop in the cloud), DEPLOYMENT (Manage fleet), MONITORING (Monitor fleet), and ADMINISTRATION (What's new, Documentation, Forum). The main content area is titled 'Resources' and shows a table of resources for the 'Energiya' device. The table has columns for Name, Last reported value, Report date, and Configured value. The resources listed include 'addon_gpio/' and 'sensors/'. Under 'sensors/', there are three entries: 'E0030b7d2/', 'E0517eb8f/', and 'E05822220/'. Each entry has a list of resources: 'data', 'delete', 'description', 'eep', 'enable', and 'secure'. The 'eep' and 'enable' resources have values 'true' and 'false' respectively. The 'secure' resource has a value of 'false'.

Name	Last reported value	Report date	Configured value
Energiya/			
addon_gpio/			
sensors/			
E0030b7d2/			
E0517eb8f/			
E05822220/			
data	—	~ 8h	—
delete	—	~ 8h	—
description	—	~ 8h	—
eep	—	~ 8h	—
enable	true	~ 8h	—
secure	false	~ 8h	—
settings/			

Under sensors unique identification numbers of sensors appear. Each sensor has got following options:

- data – system displays latest sensor reading there in JSON format,
- delete – double click on the trigger removes the sensor,
- description – free text. Friendly name of the sensor,
- eep – EnOcean Equipment Profile. EEP code has to be entered without spaces and dashes.
- enable – value true : makes the sensor enabled,
value false : makes the sensor disabled,
- secure – indicates if connection is secured.

5) AddONs are chosen in settings in `addon_type` option:

- When `addon_type = 0` is set, no addon is connected, no additional resources will be created (`addon_gpio`)
- When `addon_type = 1` is set, resources for addON 4i (4 input) are created (`addon_gpio`)

The screenshot shows the Octave web interface for device FX30 1. The 'Resources' section is active, displaying a table of resources under the 'addon_gpio/' category. The table has columns for Name, Last reported value, Report date, and Configured value. The resources listed are:

Name	Last reported value	Report date	Configured value
addon_gpio/			
Input1	false	~ 1min	
Input2	false	~ 1min	
Input3	false	~ 1min	
Input4	true	~ 1min	
sensors/			
E0030b7d2/			
E0517eb8f/			
E05822220/			
data	—	~ 1min	—
delete	—	~ 1min	—
description	—	~ 1min	—

`inputn` – shows status of GPIO`n`.

- When `addon_type = 2` is set, resources for addON 4o (4 output) are created (`addon_gpio`)

Name	Last reported value	Report date	Configured value
Energija/			
addon_gpio/			
output1	true	~ 4min	✓ true
output2	true	~ 4min	✓ true
output3	false	~ 4min	✓ false
output4	false	~ 10s	□ -
sensors/			
E0030b7d2/			
E0517eb8f/			
E05822220/			
data	-	-	-
delete	-	-	-
description	-	~ 4min	□ -

`outputn` — set or clear GPION.

- When `addon_type = 3` is set, resources for addON 2i2o (2 input / 2 output) are created (`addon_gpio`)

Name	Last reported value	Report date	Configured value
Energija/			
addon_gpio/			
input3	true	~ 10s	-
input4	true	~ 10s	-
output1	true	~ 5min	✓ true
output2	true	~ 5min	✓ true
sensors/			
E0030b7d2/			
E0517eb8f/			
E05822220/			
data	-	-	-
delete	-	-	-
description	-	~ 5min	□ -

`inputn` — shows status of GPION.
`outputn` — set or clear GPION.

- When `addon_type = 4` is set, resources for addON 8i (8 input) are created (`addon_gpio`)

Name	Last reported value	Report date	Configured value
Energiya/			
addon_gpio/			
i2c_address	0	~ 6min	-
input1	false	~ 20s	
input2	false	~ 20s	
input3	false	~ 10s	
input4	false	~ 10s	
input5	false	~ 20s	
input6	false	~ 20s	
input7	false	~ 20s	
input8	false	~ 20s	
sensors/			
E0030b7d2/			

`i2c_address` – value 0 : I²C address 0x23,
 value 1 : I²C address 0x21,
 value 2 : I²C address 0x22,
 value 3 : I²C address 0x20.

`inputn` – shows status of INPUTn.

Send us your feedback and suggestion to help us improve our products! 😊 info@energiya.pl



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