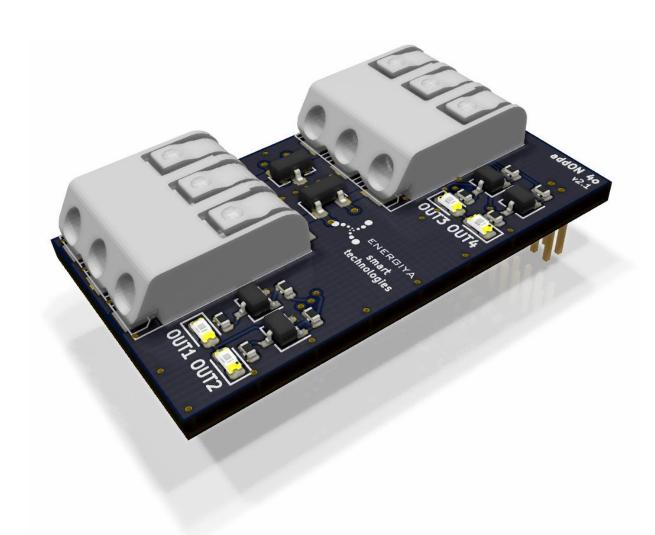
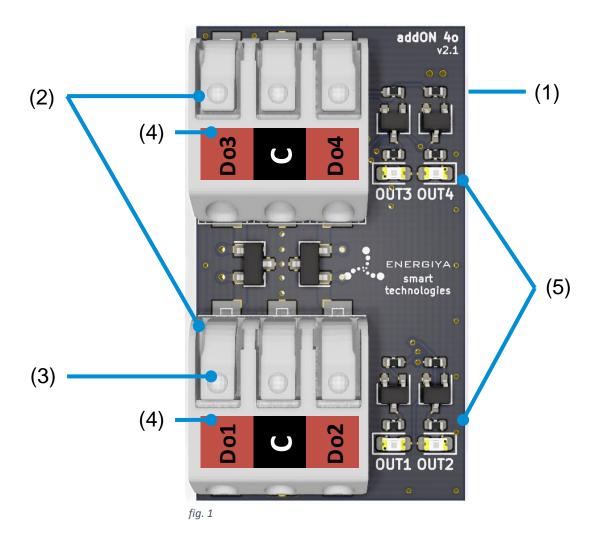




addON 4o

Digital outputs extension card





(1) addON connector (on bottom side)
(2) clamp connectors
(3) wire release
(4) connector description label
(5) output status LEDs

Description

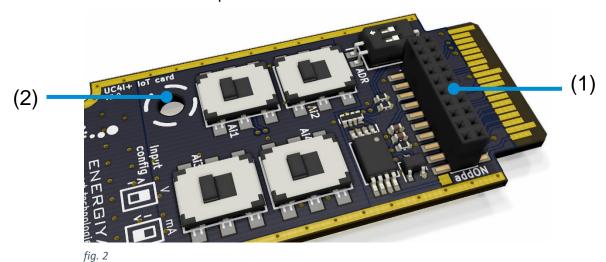
The addON expansion cards allow you to extend the functionality of IoT cards with additional inputs, outputs and interfaces.

Using the addON 40 card we will expand any IoT card by 4 digital outputs (open collector).

The addON card is compatible with all of Energiya IoT cards.

Mounting the addON card

The addON card is mounted on top of the IoT card in a dedicated connector.



First place the addON card into the slot on the top of the IoT card (1). Then use the polyamide screw (supplied with the addON) to screw the expansion card to the IoT board (2).

There are two types of addON slots. Please find below the picture of correct assembly:

• 18 pin addON slot (fig. 3):

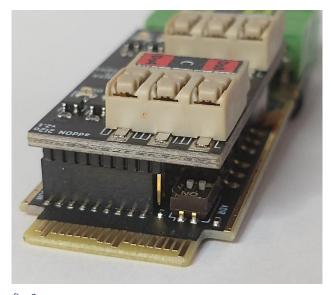


fig. 3

• 20 pin addON slot (fig. 4):

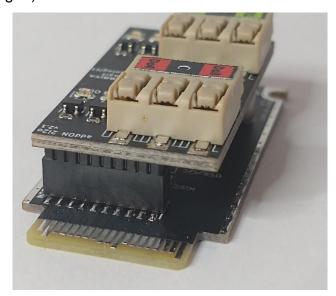


fig. 4



Important! Never mount or remove the addON card with power on! This way you can easily cause a short circuit and damage the card.



Important! Always remember to secure the card with a polyamide screw! Vibration can make slide out the card out of the connector and cause short circuit.

Status LEDs

LEDs are used to indicate the current state of the addON outputs.

Digital outputs wiring

Wire insertion and removal is very simple. To insert the cable, you just have to push it into the connector. To pull the cable out, press the release lever (see figure 1, element 2, 3 and 4).

Do1, Do2, Do3, Do4	digital outputs (open collector)
С	common



Important! To avoid short circuits, it is recommended to connect or disconnect the cables to the addON when the power is off.

The open collector outputs can be connected directly with the digital input of external system.

Important! Please note that the outputs of the open collector are not polarized (floating point in normal state, low when active state).

The load can be connected directly to the open collector output. With a voltage not higher than 30 VDC and a current not exceeding 500 mA.



Important! Maximum onboard transistor power is 500 mW. If the load is of the inductive type, an additional rectifier diode should be connected.

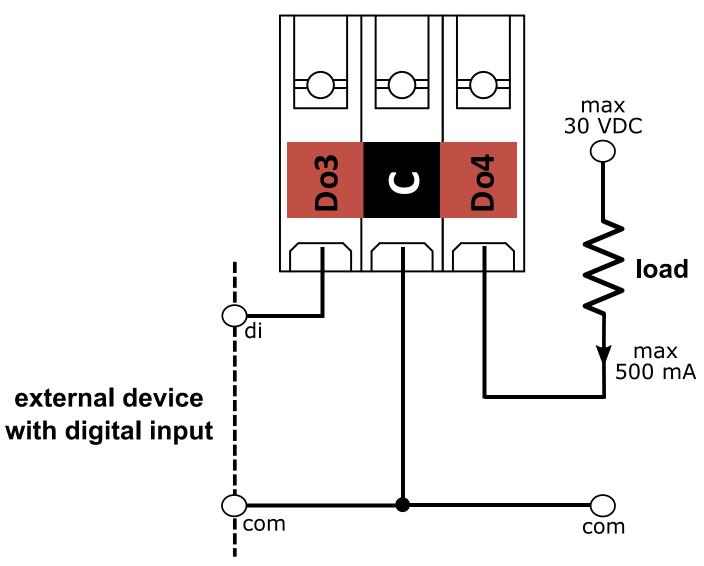


fig. 5

Specifications

Dimensions (W x H x D)	19.3 x 33.6 x 11.5 mm
Operating temp	–40 to +85°C
Weight	5 g
Current consumption	8 mA
Digital outputs	4
Wire range	0.2 to 1.0 mm ² (24 to 17 AWG)
ESD protection	yes
Latching cover for FX30	yes

Troubleshooting

check the cable connections, make sure that the common signals from addON to external device are connected, watch the LEDs

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



Please consider the environment before printing this manual.