

<workshop>



STANISLAV MIHIĆ
DIY SMART HOME

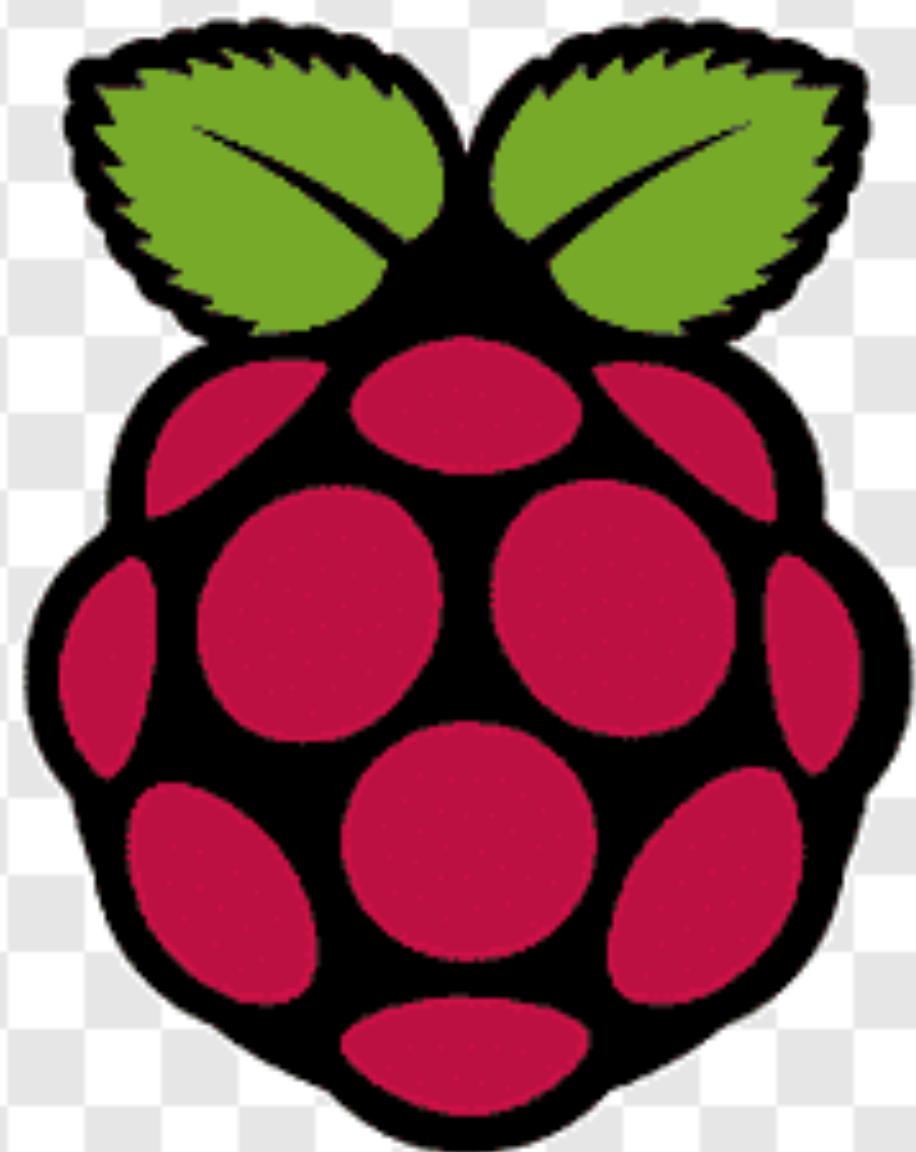
minus

THE
GEEK
GATHERING

Kako to izgleda u Praksi

- Hardware
- Software
- Protokoli
- Primjeri
- Tips&Tricks

Hardware



RaspberryPi

RPI

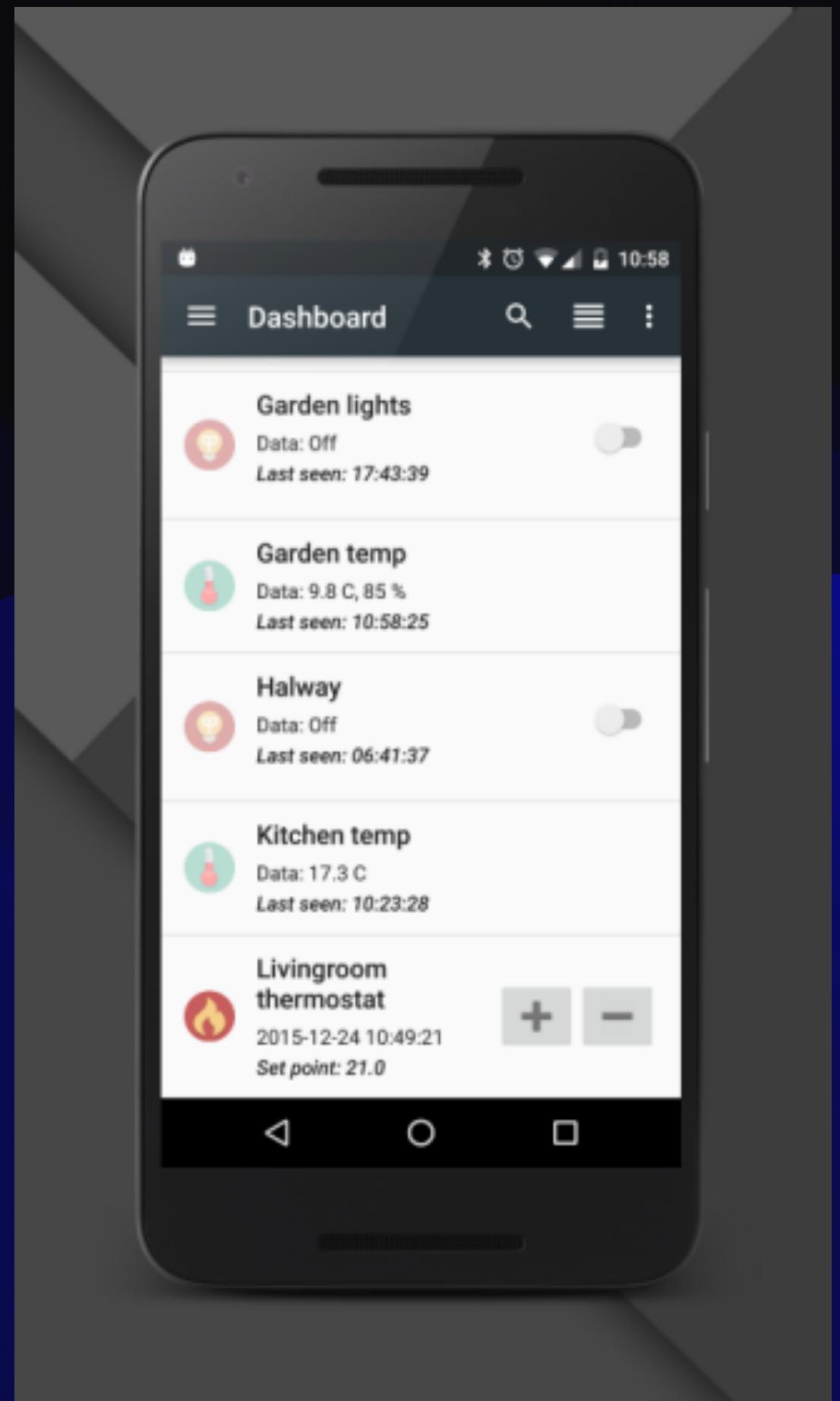
Software

The screenshot shows the Domoticz web interface with a dark theme. The top navigation bar includes links for Dashboard, Floorplan, Switches (selected), Scenes, Temperature, Weather, Utility, Custom, and Setup. A date and time display shows 2022-10-01 20:38:20. A dropdown menu for Room is set to All. Below the navigation, there's a "Learn Light/Switch" button.

The main area displays 12 device cards arranged in a grid:

- OCSensorDemo**: Status: Open. Last Seen: 2022-10-01 20:15:03. Type: Light/Switch, Switch, Door Contact. Includes Log, Edit, Notifications buttons.
- Socket@Home**: Status: Off. Last Seen: 2022-10-01 20:36:49. Type: Light/Switch, Switch, On/Off. Includes Log, Edit, Timers, Notifications buttons.
- Socket@Garage**: Status: On. Last Seen: 2022-10-01 20:33:11. Type: Light/Switch, Switch, On/Off. Includes Log, Edit, Timers, Notifications buttons.
- SwitchDouble**: Status: single_both. Last Seen: 2022-10-01 20:11:42. Type: Light/Switch, Selector Switch, Selector. Includes Log, Edit, Timers, Notifications buttons.
- BoilerRoomDoor**: Status: Closed. Last Seen: 2022-10-01 20:12:57. Type: Light/Switch, Switch, Door Contact. Includes Log, Edit, Notifications buttons.
- GarageDoor**: Status: Closed. Last Seen: 2022-10-01 20:08:05. Type: Light/Switch, Switch, Door Contact. Includes Log, Edit, Notifications buttons.
- Switch@Garage**: Status: double. Last Seen: 2022-10-01 19:44:55. Type: Light/Switch, Selector Switch, Selector. Includes Log, Edit, Timers, Notifications buttons.
- Move@House**: Status: Off. Last Seen: 2022-09-13 13:27:56. Type: Light/Switch, Switch, Motion Sensor. Includes Log, Edit, Notifications buttons.
- Switch@House**: Status: single. Last Seen: 2022-10-01 20:17:34. Type: Light/Switch, Selector Switch, Selector. Includes Log, Edit, Timers, Notifications buttons. A dropdown menu shows Off, single, double, triple, quadruple, hold, release.
- MagicCube**: Status: Slide. Last Seen: 2022-09-13 13:27:56. Type: Light/Switch, Selector Switch, Selector. Includes Log, Edit, Timers, Notifications buttons.
- WorkBench**: Status: Off. Last Seen: 2022-09-30 19:49:46. Type: Light/Switch, Switch, On/Off. Includes Log, Edit, Timers, Notifications buttons.
- GardenLight**: Status: On. Last Seen: 2022-10-01 18:27:02. Type: Light/Switch, Switch, On/Off. Includes Log, Edit, Timers, Notifications buttons.

Domoticz



Domoticz for android

Software

ESP Easy Mega: ESP4CH

Main Config Controllers Hardware Devices Rules Notifications Tools

	Task	Enabled	Device	Name	Port	Ctr (IDX)	GPIO	Values
Edit	1	✓	Switch input - Switch	Button1			GPIO-0	StateSW1: 1
Edit	2	✓	Switch input - Switch	Button2			GPIO-9	StateSW2: 1
Edit	3	✓	Switch input - Switch	Button3			GPIO-10	StateSW3: 1
Edit	4	✓	Switch input - Switch	Button4			GPIO-14	StateSW4: 1
Edit	5	✓	Switch input - Switch	SW1		1 (83)	GPIO-12	State: 1
Edit	6	✓	Switch input - Switch	SW2		1 (82)	GPIO-5	State: 0
Edit	7	✓	Switch input - Switch	SW3		1 (84)	GPIO-4	State: 0
Edit	8	✓	Switch input - Switch	SW4		1 (89)	GPIO-15	State: 0
Add	9							
Add	10							
Add	11							
Add	12							

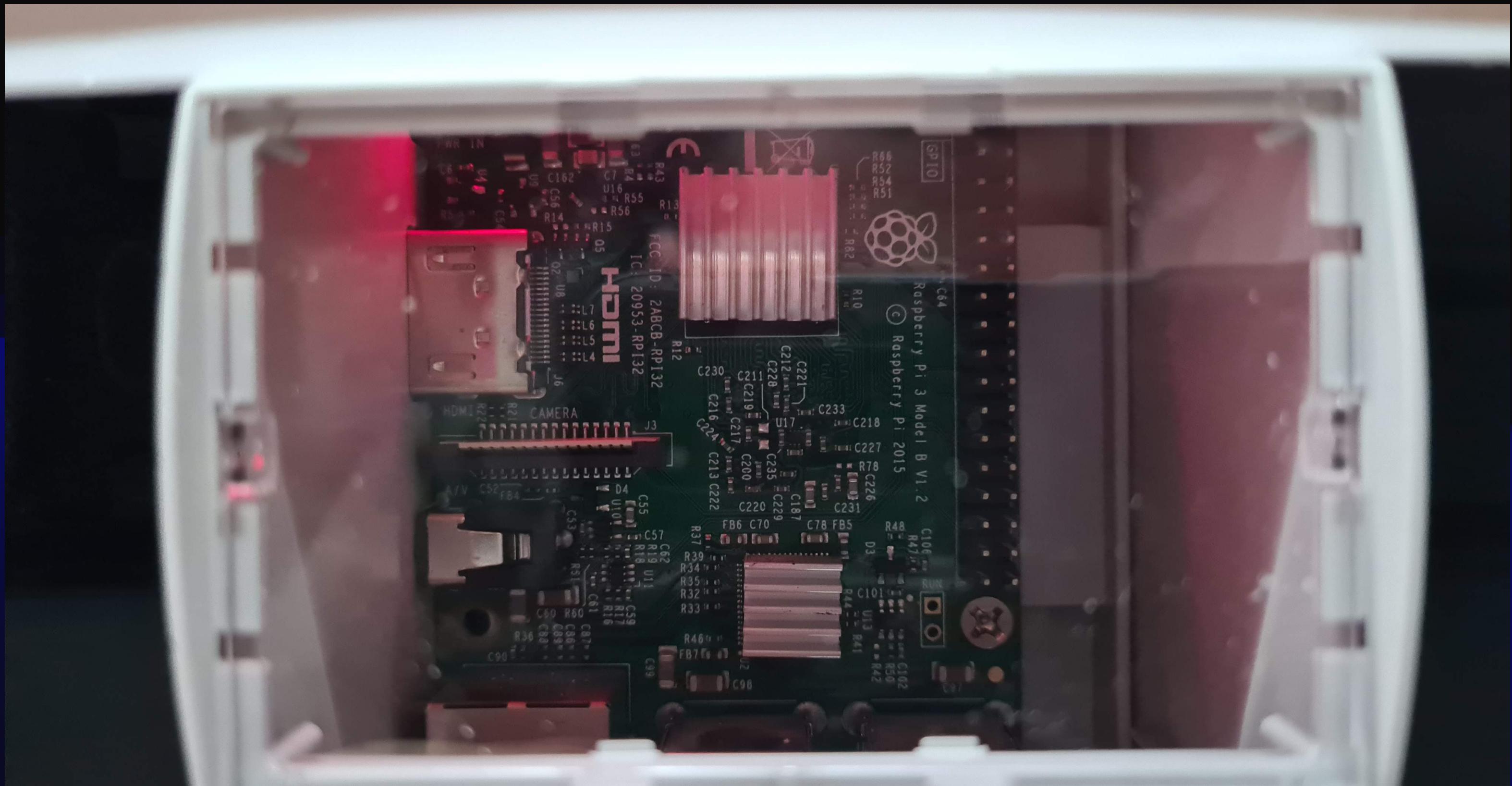
Powered by Let's Control It community

ESPEasy - let's control it

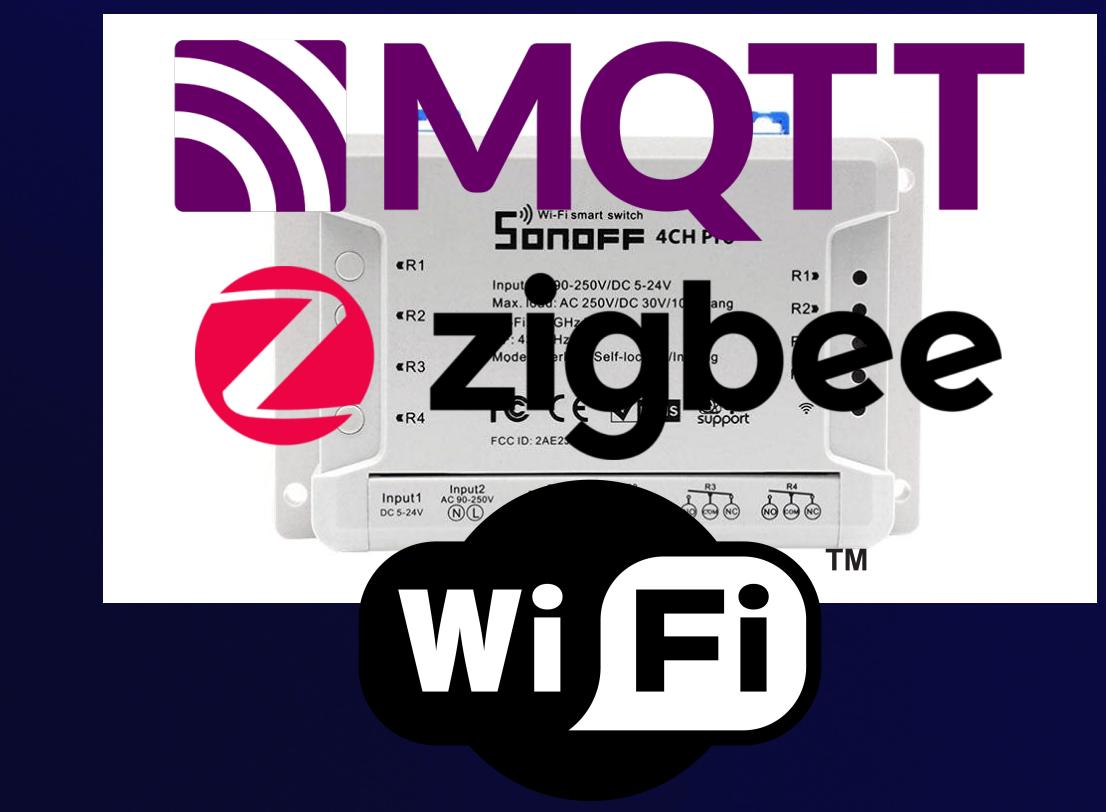
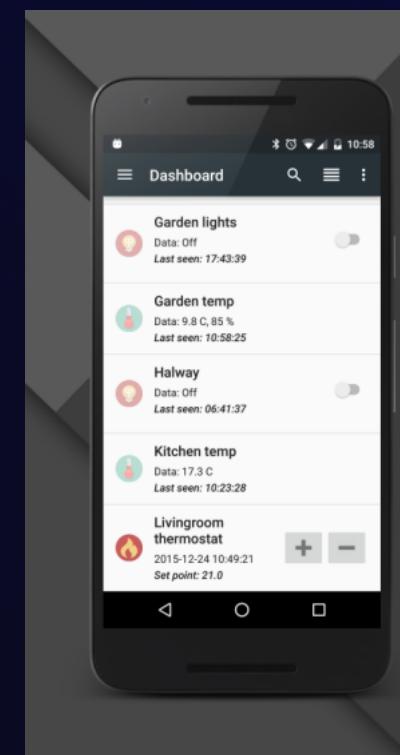
Protokoli



Hrpa slika i Primjera



Saga o garažním vratima

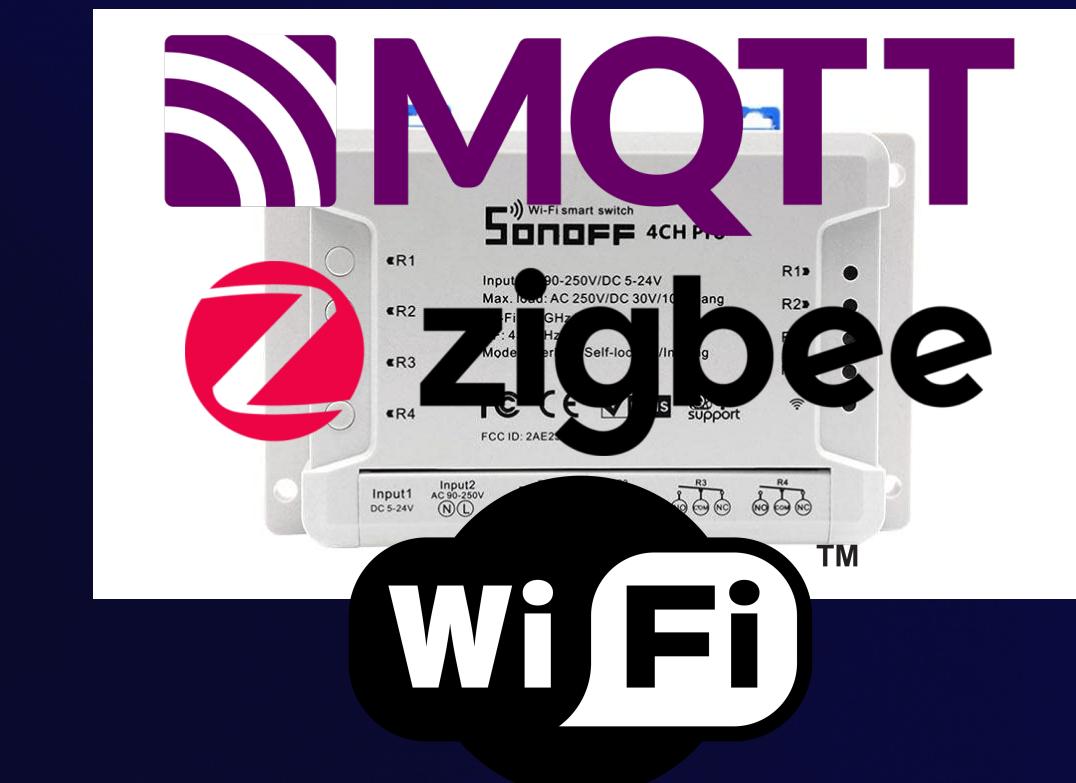


A screenshot of the ESP Easy Mega software interface. The top navigation bar includes "Dashboard", "Map", "Settings", "Groups", "OTA", "Touchlink", "Logs", "Extensions", "Devices", "Rules", "Notifications", and "Tools". The main area shows a table of devices with columns for Task, Enabled, Device, Name, Port, Ctr (IDX), GPIO, and Values. Below the table are several device-specific configuration panels, including one for an "ikea LB-1" LED driver and another for a "Domoticz" dashboard.

Kada ne kompliciram



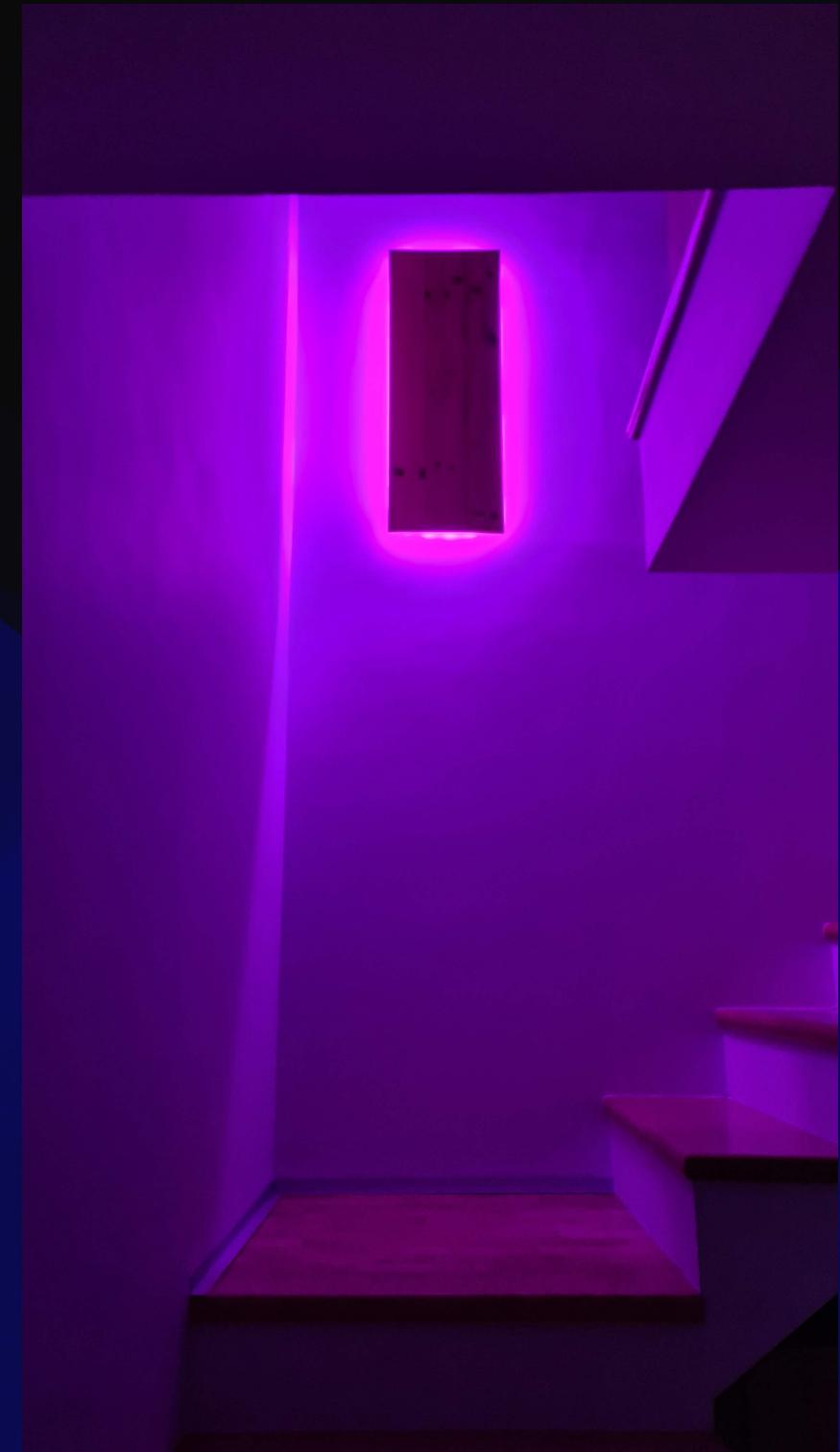
Navodnjavanje...



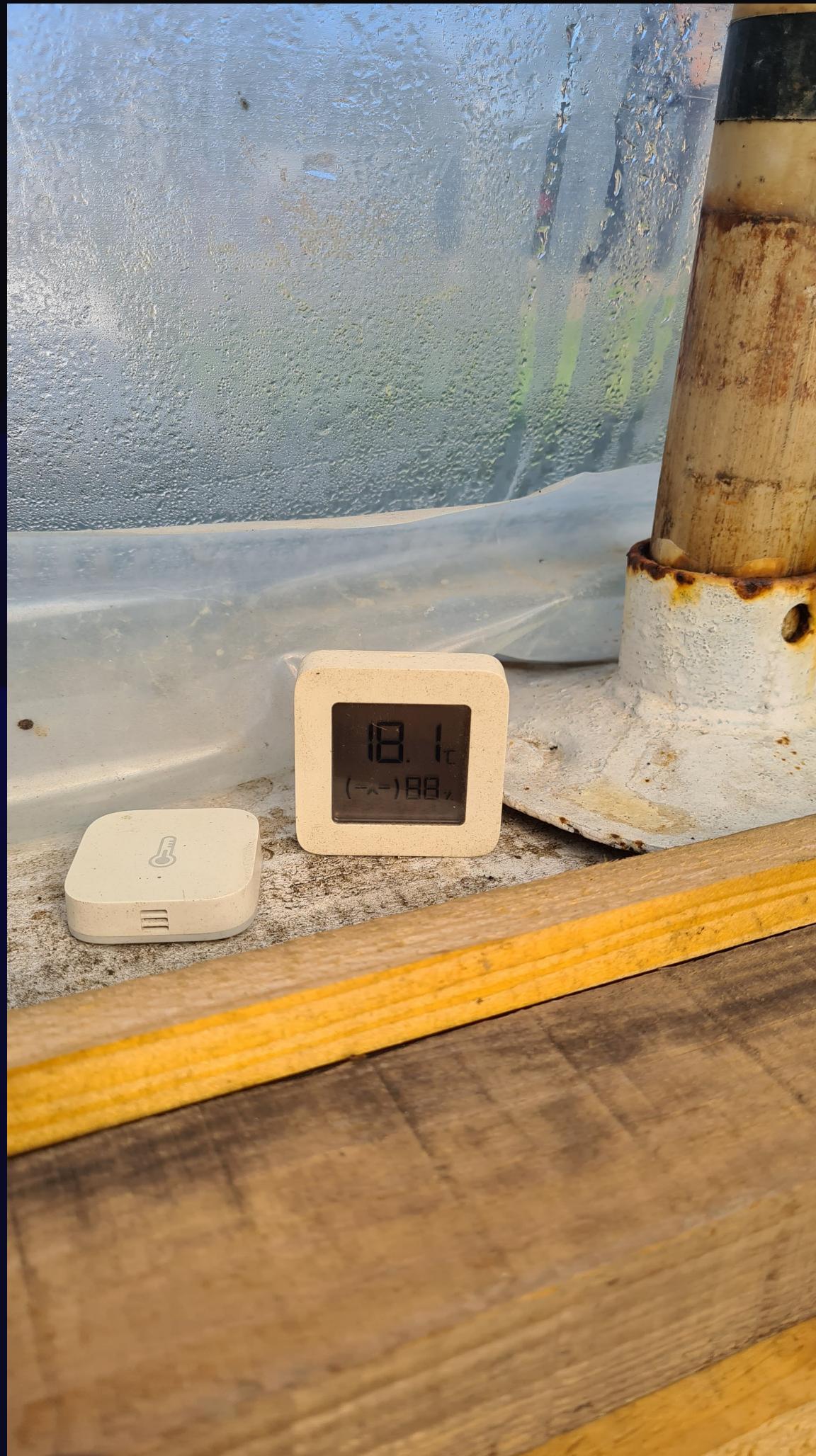
Navodnjavanje...



Rasvjeta...



Senzori...



- LYWSD03MMC BLE
- WSDCGQ11LM ZIGBEE

Tips&Tricks

- Ne komplikirati stvari :-)
- Za početak odabratи 1 ili 2 proizvođačа
- WAF (wife acceptance factor) !!!
- Iterirajte :-)
- Zabavite se

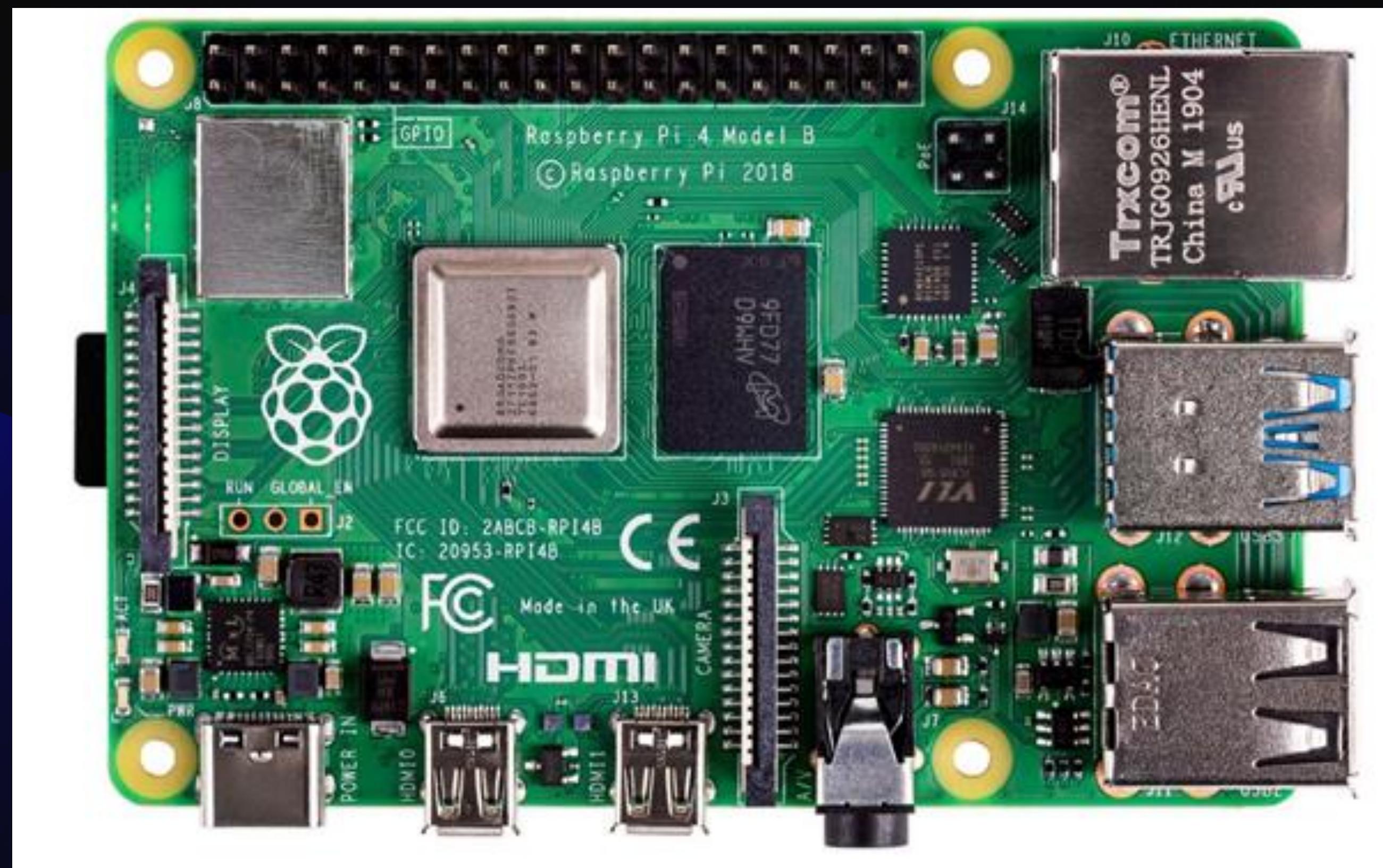
Preporuke



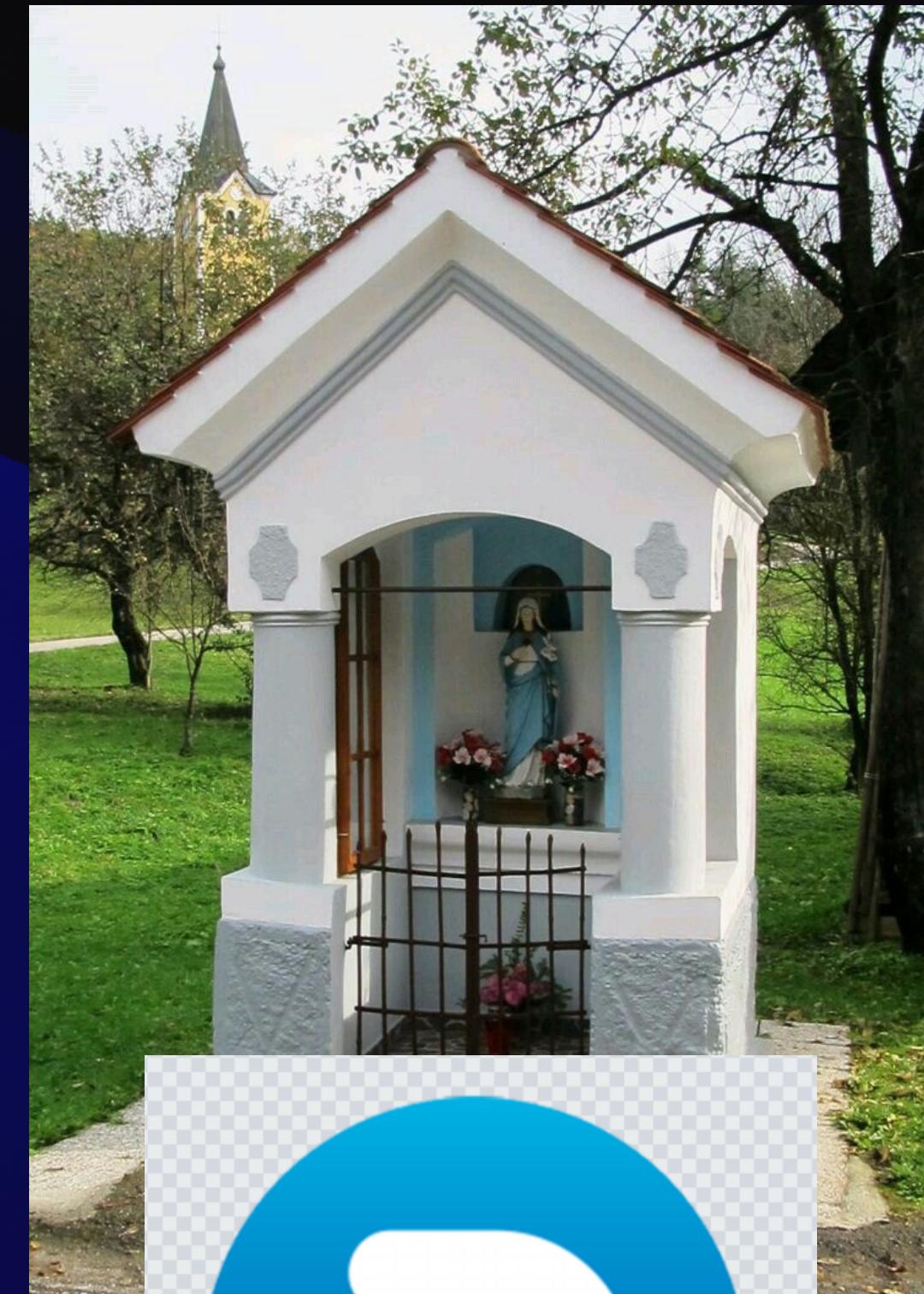
Google Home



Kontrola...



Home automation...



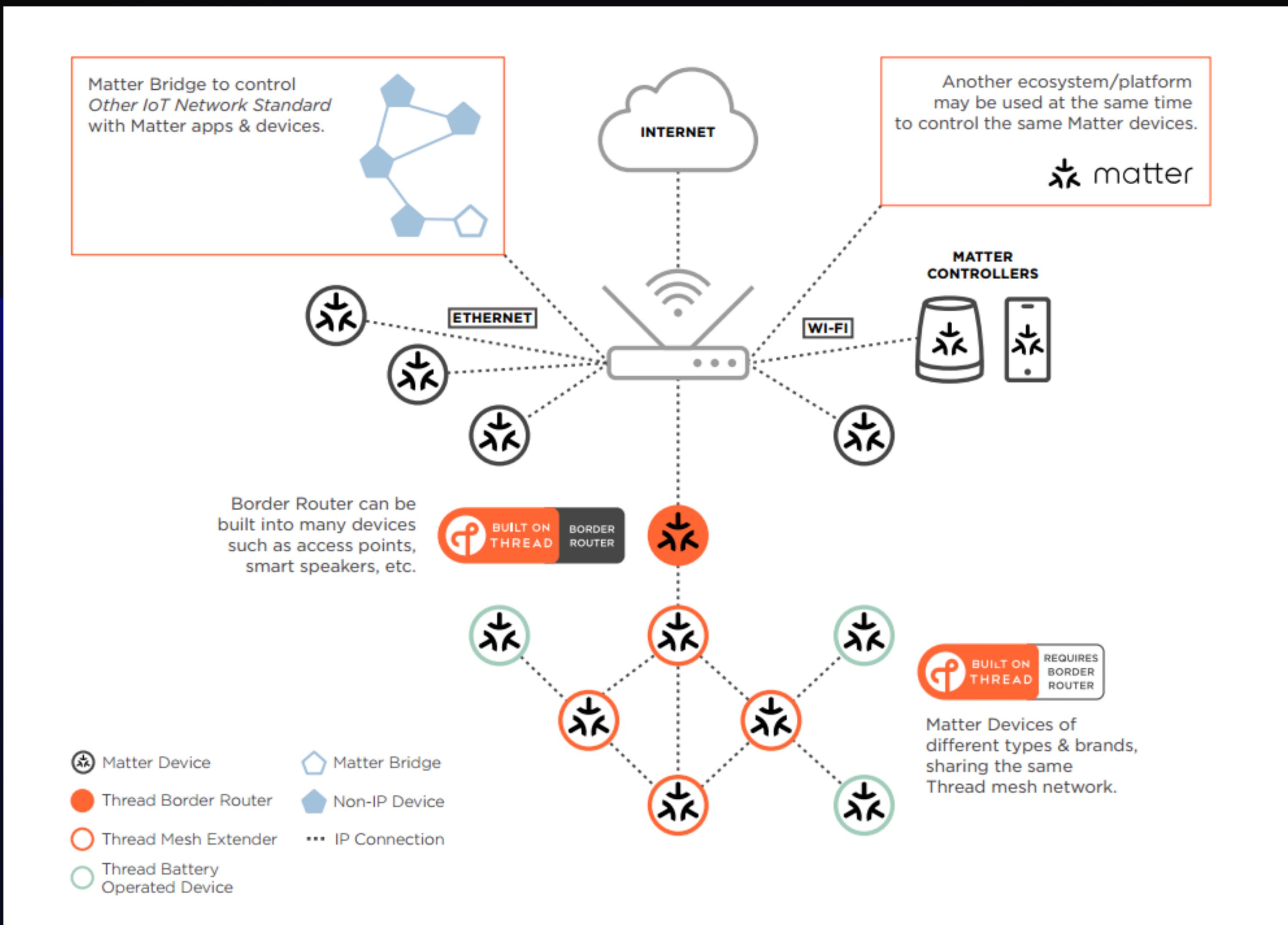
Sigurnost...

- Možda tema za buduće predavanje...
- Cloud 
- Mission critical
- Network setup, (VLAN) :-)
- Update, upgrade...

Malo o protokolima...

- Ne postoji (još uvijek) univerzalni protokol
- Mqtt, uspio ujediniti ostale :-)
- Z-wave, jednostavno radi ali i košta
- Knx ne spominjem to je već industrija
- Zigbee open source protokol, jeftin :-) a popularan
- Sve ostalo, valjalo bi spomenuti

Budućnost!?



Q/A

Hvala!

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