

LOGICMACHINE WALL LITE

Embedded Systems

MAIN IDEA

- Make convergence product which is «**must-have**» in each house and better **in every room**
- To have it as a Bone product – all upcoming home automation devices are build up to this device

SENSORS

- **VOC** for control of air quality (please see more on VOC in docx)
- **Air Quality** – with greater CO part than VOC (it can be used where there are CO sources like ovens)
- **Temperature** which allows to make smart thermostat
- **Humidity** (optional)
- **Barometer** (optional)
- **Ambient light sensor** with light spectrum sensor
- **Gesture control** (swipe right/left, up/down, front in/out; works starting from 20cm)

OUT INTERFACES

- **RGB LED lighting** which allows to use device as ambient light source as well as interface device
- For example, red flashes means some security trigger and you can see it much better than info on standard screen
- **Indicator / locator of swap zone**

BEST INTERFACE IS ABSENCE OF INTERFACE

- With RGB lighting notifications you can make more intuitive system than with regular display
- We make it as a design element of the house

COMMUNICATION INTERFACES

- **Ethernet with PoE powering**
- **Bluetooth in two modes** – Personal Access Network mode (when IPv4 is needed to be run on top), and standard Bluetooth which can work as beacon, as normal master device and as gateway to e.g. KNX and vice versa
- Low profile connector for **24V DC input**
- Optional: WiFi through USB stick, EnOcean

BASE FUNCTIONALITY

- **Infrastructure device**
- **Gateway**
- **Presence monitoring**
- **Smart thermostat**
- **Lighting regulation**
- **HVAC**
- **Universal controller** (lighting, shutter etc.)
- **Health / activity monitoring**

SOFTWARE

- We plan to have 3 types:
 - Plug&play smart sensor platform which shows air quality, temperature and works as LED lightning (no programming required)
 - You make complete services without visualization. Works as sensor-actor with data transmit possibility
 - Full functionality of LM + all previous scenarios

DESIGN

- Form-factor we plan to have close to standard pushbutton
- We put it on wall (and not inside the wall) because:
 - we have sensors which requires air flow
 - integrated ambient lighting
- We plan to offer clients for this device exotic wood, natural wood, gold/silver/..etc. Paintings and other designs



