Kitra 530

2017, July

VISION

Digital transformation is giving the tools to face up and solve the big challenges of our time, moving commitment from infrastractures creation to applications development. Accelerating the digital revolution means creating and delivering technologically advanced and higly industrialized electronic platforms to anyone, eliminating technological input barriers.

MISSION

Deploy advanced and innovative IoT technologies through industrialized product accelerators.

R&D Development process

1. Needs   →   Idea
2. Feasability   →   Prototype
3. Industrialization →   Engineering sample
4. Validation   →   Product

Evaluation board & help from market...

...FOR STEP 1 ONLY!

A lot of open hardware and evaluation board that are PROTOTYPE ACCELERATOR but, how to move fast to product also?
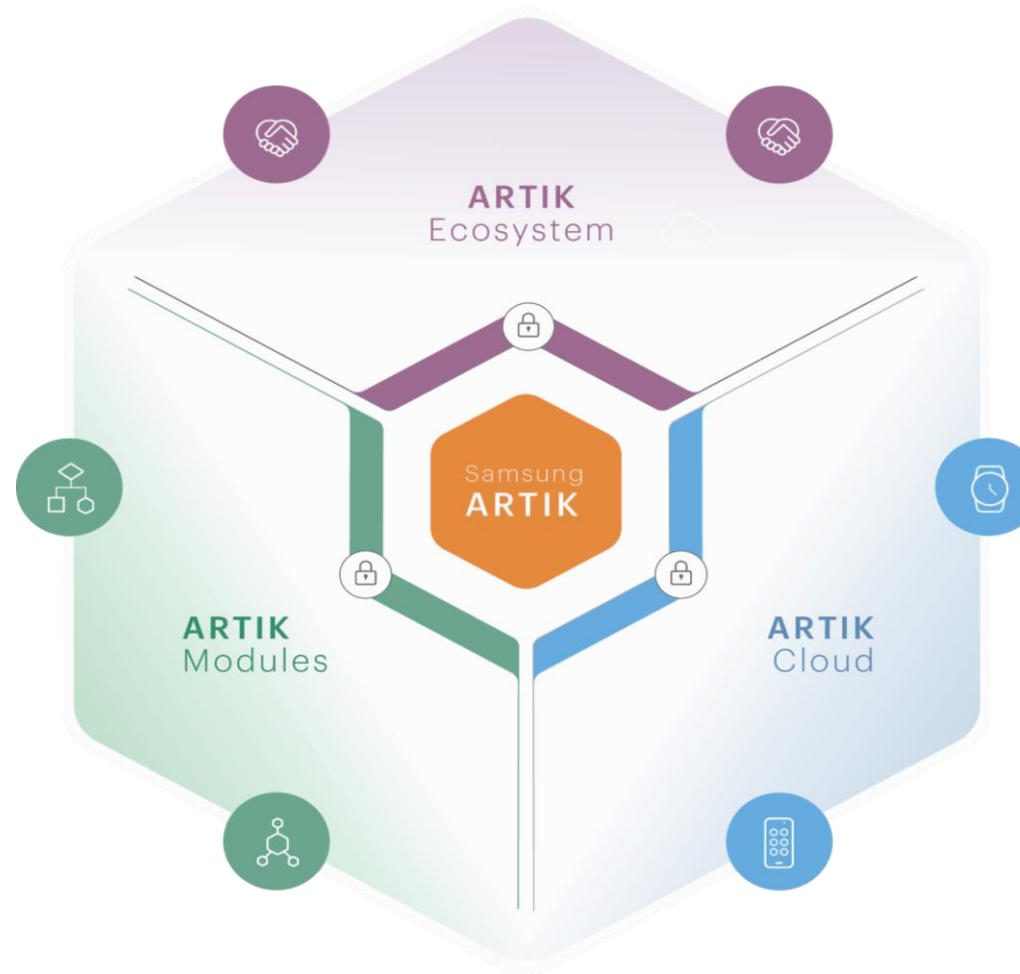
RushUp: PRODUCT ACCELERATORS

RushUp creates PRODUCT ACCELERATORS and is the answer when makers, developers and high mix low volume industry want to turn on in a fast way the idea in a product!

Samsung ARTIK®

Samsung ARTIK Ecosystems

KITRA 530: IoT gateway & Industry 4.0

- Quad-core processing, communications, memories, I/O and sensors

- Miniature KITRA form factor (only 53x53mm)

- Product accelerator for:
  - IoT
  - Industry 4.0
  - Factory automation
  - Smart home gateway
  - Multimedia applications
  - video cameras, home applicances

- Usable from makers to professional engineers

HW FEATURES

53x53mm form factor
12V Power supply from standard 5,5mm jack
Samsung ARTIK 530
- **High performance, 4-core, 32-bit Cortex® A-9 processor @ 1.2GHz**
- **ARM MALI™ GPU for multimedia, graphics applications**
- **512MB RAM, 4GB flash (eMMC)**
- **Wi-Fi 2,4GHz and 5GHz, Bluetooth, ZigBee, Thread**
- **Enterprise-class security with hardware secure element and Secure OS**
- **Linux packages with multimedia, connectivity, graphics, power management and security libraries**

Micro USB for Samsung ARTIK 530 debug
USB type A (HOST)
USB OTG
Micro SD card
Micro HDMI connector
10/100Mbps Ethernet
Barometric pressure sensor
Accelerometer & gyroscope sensor
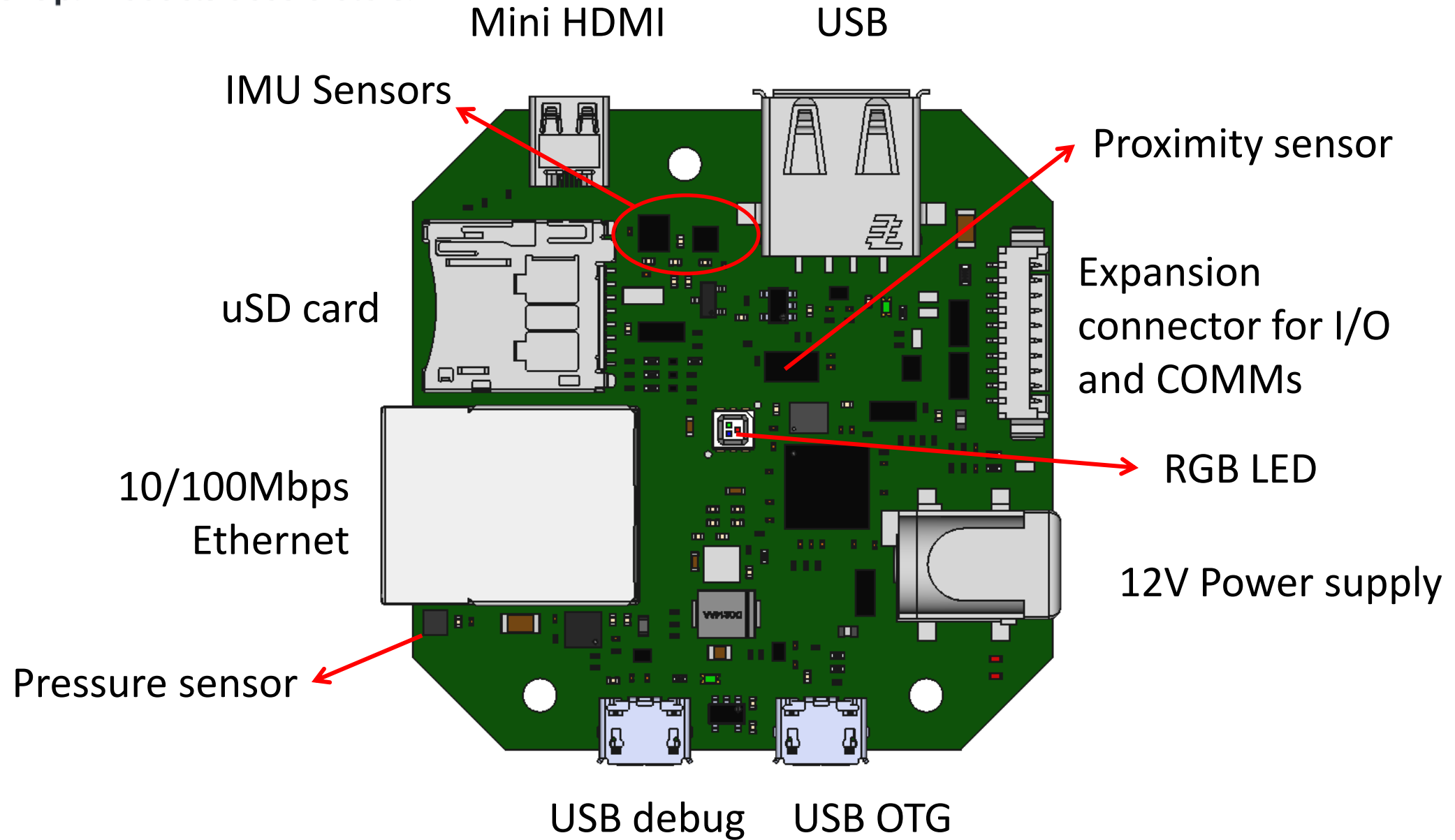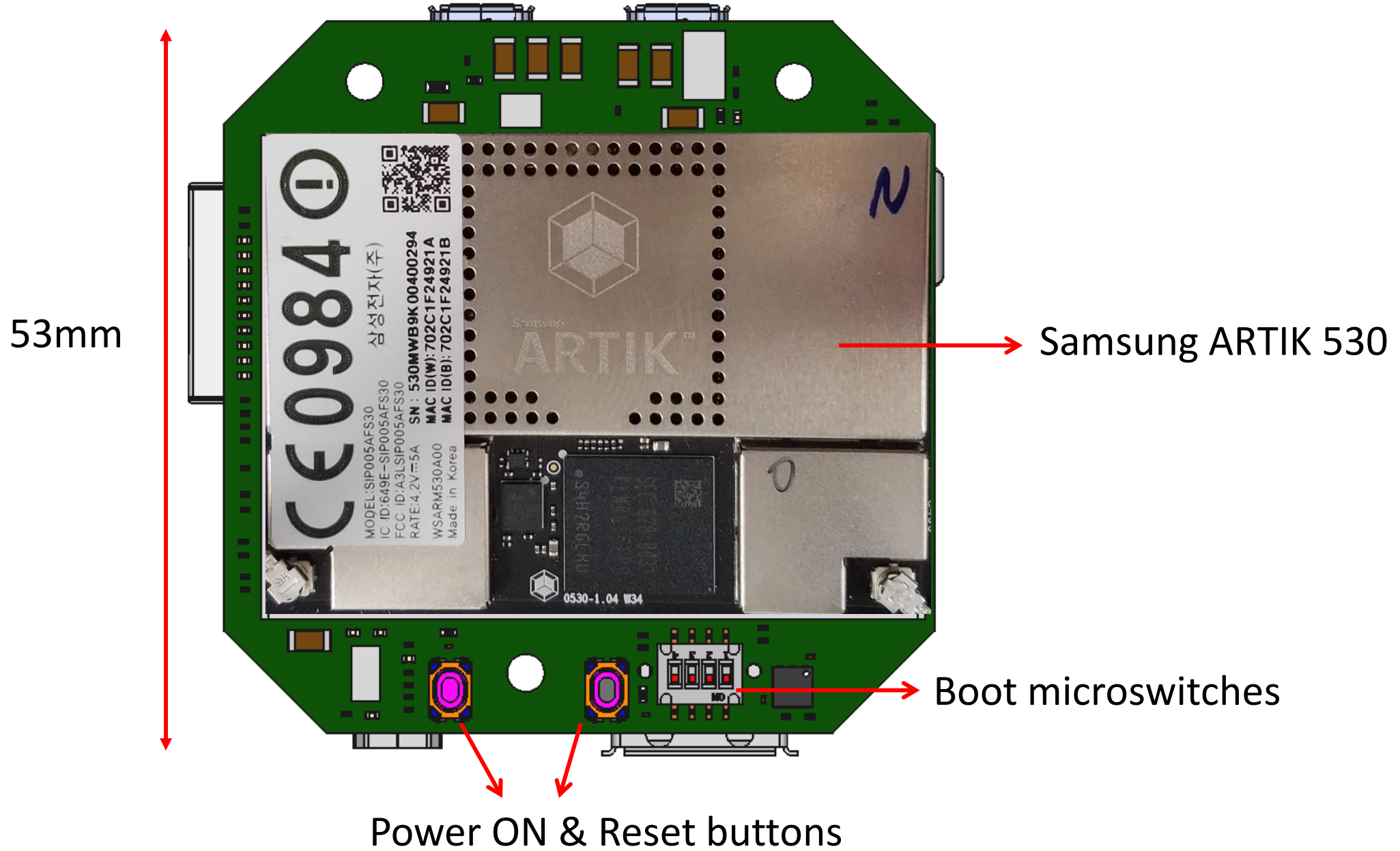**Accelerometer & magnetometer sensos**
Proximity sensor with 2 meters range
Ten poles Pico-blade connector for: analog inputs, PWM output, I2C, UART, 3,3V
RGB LED
Samsung ARTIK 710 mounting option

53mm

Samsung ARTIK 530

Boot microswitches

Power ON & Reset buttons

SW FEATURES AND MORE

Supported OS
- Fedora 24
- Resin OS

ARTIK-SDK support for networking (Zigbee, Bluetooth, Wi-Fi) and IO

Node-RED ready-to-use modules for easy prototyping

Linux device drivers for sensors (both as IIO and input)

- RushUp.tech
- Github
- Youtube