

INTEL JOULE

ARTIK 710

ARTIK 530

INTEL EDISON

ARTIK 710

INTEL GALILEO

ARTIK 053

HARDWARE

PROCESSOR

4x Intel Atom (1.5/1.7 GHz)

CONNECTIVITY

Wi-Fi
BLE (4.2)

MULTIMEDIA

GPU
HDMI
MIPI CSI/DSI

PERIPHERALS

GPIO
I2C
I2S
PMW
UART
USB

RAM

3GB **4GB** LPDDR4

STORAGE

8GB **16GB** eMMC

SOFTWARE

OS

Linux-4.4 (Ostro/Ref-OS-IoT/Ubuntu),
Windows-10 IoT Core

TOOLS

Intel System Studio (Eclipse)

SDK

Intel XDK

SECURITY

X

HARDWARE

PROCESSOR

8x ARM Cortex A53 (1.4GHz)

CONNECTIVITY

Wi-Fi
BT/BLE (4.2)
ZigBee
Thread
10/100/1000 Ethernet

MULTIMEDIA

GPU
HDMI
MIPI CSI/DSI
LVDS

PERIPHERALS

ADC
GPIO
I2C
I2S
PMW
SPI
UART

RAM

1GB DDR3

STORAGE

4GB eMMC

SOFTWARE

OS

Linux-4.4 (Fedora 24)

TOOLS

ARTIK IDE (Eclipse)

SDK

ARTIK SDK

SECURITY

Secure element, pre provisioned
unique device keys and certificate

HARDWARE

PROCESSOR

4x ARM Cortex A9 (1.2GHz)

CONNECTIVITY

Wi-Fi
BT/BLE (4.2)
ZigBee
Thread
10/100/1000 Ethernet

MULTIMEDIA

GPU
HDMI
MIPI CSI/DSI
LVDS

PERIPHERALS

ADC
GPIO
I2C
I2S
PMW
SPI
UART
USB

RAM

512MB DDR3

STORAGE

4GB eMMC

SOFTWARE

OS

Linux-4.4 (Fedora 24)

TOOLS

ARTIK IDE (Eclipse)

SDK

ARTIK SDK

SECURITY

HW secure element, pre provisioned
unique device keys and certificate

HARDWARE

PROCESSOR

2x Intel Atom(500MHz)

CONNECTIVITY

Wi-Fi
BT (4.0)

MULTIMEDIA

No multimedia support

PERIPHERALS

ADC
GPIO
I2C
PMW
UART
USB1GB
LPDDR3

RAM

1GB LPDDR3

STORAGE

4GB eMMC

SOFTWARE

OS

Yocto

TOOLS

Arduino IDE
Intel System Studio (Eclipse)

SDK

Intel XDK

SECURITY

X

HARDWARE

PROCESSOR

8x ARM Cortex A53 (1.4GHz)

CONNECTIVITY

Wi-Fi
BT/BLE (4.2)
ZigBee
Thread
10/100/1000 Ethernet

MULTIMEDIA

GPU
HDMI
MIPI CSI/DSI
LVDS

PERIPHERALS

ADC
GPIO
I2C
I2S
PMW
SPI
UART

RAM

1GB DDR3

STORAGE

4GB eMMC

SOFTWARE

OS

Linux-4.4 (Fedora 24)

TOOLS

ARTIK IDE (Eclipse)

SDK

ARTIK SDK

SECURITY

Secure element, pre provisioned
unique device keys and certificate

HARDWARE

PROCESSOR

400 MHZ Intel Quark

CONNECTIVITY

10/100 Ethernet

MULTIMEDIA

No multimedia support

PERIPHERALS

ADC
GPIO
I2C
SPI
UART
USB
PCIe

RAM

512KB SRAM

STORAGE

8MB Flash

SOFTWARE

OS

Yocto

TOOLS

Arduino IDE
Intel System Studio (Eclipse)

SDK

Intel XDK

SECURITY

X

HARDWARE

PROCESSOR

320 MHZ ARM Cortex R4

CONNECTIVITY

Wi-Fi (802.11b/g)

MULTIMEDIA

PERIPHERALS

ADC
GPIO
I2C
I2S
PMW
SPI
UART

RAM

1408 KB SRAM

STORAGE

8MB Flash

SOFTWARE

OS

Tizen RT

TOOLS

ARTIK IDE (Eclipse)

SDK

ARTIK SDK

SECURITY

Secure element, pre provisioned
unique device keys and certificate