

Technology



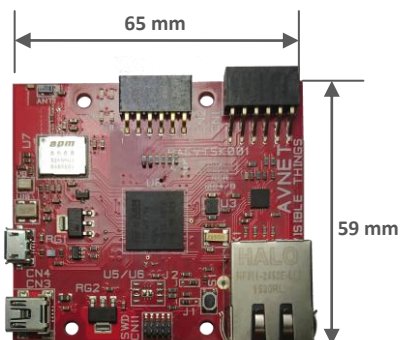
Lifecycle

VT-SK-001 Spec Datasheet (preliminary)

Features

Gateway

- **APM APM6668 WIFI + BT/ dual mode module**
 - WIFI 802.11b/g/n
 - BT/BLE 4.1 dual mode
- **ST Microelectronics STM32F746**
 - ARM Cortex-M7F MCU
 - 1MB Flash
 - 320KB internal RAM
 - 216MHz MPU, 462 DMIPS
- **Interfaces**
 - USB Host Full-speed
 - USB Device Full-speed
 - Ethernet 10/100
 - 2x PMOD I/F UART and I²C
 - ARM SWD debug I/F
 - 1x Tactile Switch
- **Dimension**
 - 65x59x18mm
- **Power Supply**
 - Mini-USB Type A power supply
 - 5V, 500mA
- **Temperature range**
 - -40C to +85C



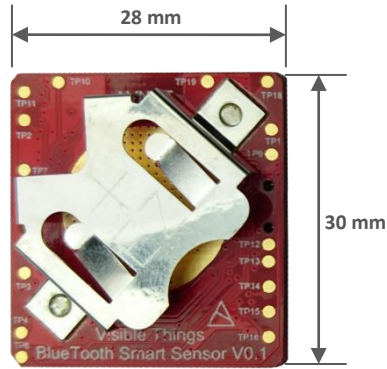
Smart Sensor

- **Silicon Labs Bluetooth Smart Module BGM111**
 - Bluetooth Smart Module 4.1 Compliant (Software Upgradable to Bluetooth 4.2)
 - Up to +8 dBm TX Power
 - RX sensitivity down to -93 dBm
 - 40MHz Cortex-M4 CPU Core
 - 256KB Flash
 - 32KB RAM
- **Environmental and Motion Sensors**
 - Ambient Light Sensing (100 mlx resolution)
 - IR Proximity Sensing
 - 3D-Gesture Sensing
 - Temperature Sensing ($\pm 0.4^{\circ}\text{C}$ max)
 - Relative Humidity Sensing ($\pm 3\%$, 0-80% max)
 - 3-Axis Gyroscope
 - 3-Axis Accelerometer
 - 3-Axis Magnetometer
- **Human Machine Interface**
 - 3D-Gesture proximity
 - 2x Push-Buttons
 - 2x LEDs
 - 1x 1.28 inch 128x128 Monochrome TFT Display Module (Optional)
- **Dimension**
 - 30x28x9mm
- **Power Supply**
 - Lithium Battery CR2032
- **Voltage Range**
 - 2.0V to 3.6V
- **Temperature range**
 - -40C to +85C

• Size



TOP



BOTTOM

• Ordering Information:

Part Number	Description	Hard. Rev.	Soft. Version	Secure Element
VT-SK-001-A01	WiFi/BT Dual Mode Gateway STM7F746 ARM Cortex-M7 + Bluetooth Smart Sensor Silicon Labs BGM111 Based	A	01	-
VT-SK-001-A01S	WiFi/BT Dual Mode Gateway STM7F746 ARM Cortex-M7 + Bluetooth Smart Sensor Silicon Labs BGM111 Based with Secure Element	A	01	✓

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