









Technology



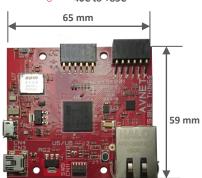
Lifecycle

VT-SK-001 Spec Datasheet (preliminary)

Features

Gateway

- APM APM6668 WIFI + BT/ dual mode module
 - o WIFI 802.11b/g/n
 - o BT/BLE 4.1 dual mode
- ST Microelectronics STM32F746
 - ARM Cortex-M7F MCU
 - o 1MB Flash
 - o 320KB internal RAM
 - o 216MHz MPU, 462 DMIPS
- Interfaces
 - USB Host Full-speed
 - USB Device Full-speed
 - o Ethernet 10/100
 - 2x PMOD I/F UART and I²C
 - ARM SWD debug I/F
 - o 1x Tactile Switch
- Dimension
 - o 65x59x18mm
- Power Supply
 - Mini-USB Type A power supply
 - o 5V, 500mA
- Temperature range
 - o -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
 - o 40MHz Cortex-M4 CPU Core
 - o 256KB Flash
 - o 32KB RAM
- Environmental and Motion Sensors
 - o Ambient Light Sensing (100 mlx resolution)
 - IR Proximity Sensing
 - o 3D-Gesture Sensing
 - o Temperature Sensing (± 0.4°C max)
 - o Relative Humidity Sensing (± 3%, 0-80% max)
 - 3-Axis Gyroscope
 - o 3-Axis Accelerometer
 - 3-Axis Magnetometer
- Human Machine Interface
 - 3D-Gesture proximity2x Push-Buttons
 - o 2x LEDs
 - 1x 1.28 inch 128x128 Monochrome TFT Display
 Module (Optional)
- Dimension
 - o 30x28x9mm
- Power Supply
 - Lithium Battery CR2032
- Voltage Range
 - o 2.0V to 3.6V
- Temperature range
 - o -40C to +85C

Size





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	А	01	ı
VT-SK-001-A01S	WIFI/BT Dual Mode Gateway STM7F746 ARM Cortex-M7 + Bluetooth Smart Sensor Silicon Labs BGM111 Based with Secure Element	А	01	7

ТОР ВОТТОМ

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Use for any other purpose is not permitted and is done at your own risk.

Persons handling the VTSS001 Board must have electronics training and observe good engineering practice standards.

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