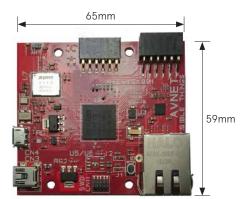
VT-SK-001 Spec Datasheet

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FEATURES

Gateway

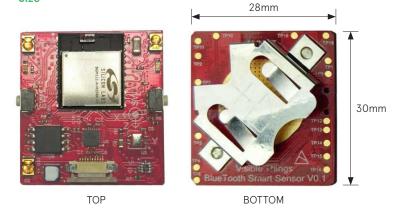
- APM APM6668 WIFI + BT/ dual mode module
 - WIFI 802.11b/g/n
 - o BT/BLE 4.1 dual mode
- ST Microelectronics STM32F746
 - ARM Cortex-M7F MCU
 - 1MB Flash
 - 320KB internal RAM
 - 216MHz MPU, 462 DMIPS
- Interfaces
 - USB Host Full-speed
 - USB Device Full-speed
 - Ethernet 10/100
 - 2x PMOD I/F UART 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 (± 0.4°C max)
 - Relative Humidity Sensing (± 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



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	-
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	✓

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AVNET-MEMEC SILICA provides the enclosed product under the following conditions:

The VTSS001 Board is intended for use for ENGINEERING DEVELOPMENT, DEMONSTRATION OR EVALUATION PURPOSES ONLY. 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. Please observe carefully the instructions of the VTSS001 Board User Manual.

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- (iv) prevent or restrict the use of any such Technology by its respective owner for any purpose.

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