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⌄ Worldwide (In English)

SimpleLink™ Bluetooth low energy/Multi-standard SensorTag

(ACTIVE) CC2650STK

📄 **Description & Features** | ⬇ **Technical Documents** | 👥 **Support & Training** | 🛒 **Order Now**

Description

The new SensorTag IoT kit invites you to realize your cloud-connected product idea. The new SensorTag now includes 10 low-power MEMS sensors in a tiny red package. And it is expandable with DevPacks to make it easy to add your own sensors or actuators.

Connect to the cloud with Bluetooth low energy and get your sensor data online in 3 minutes. The SensorTag is ready to use right out the box with an iOS and Android app, with no programming experience required to get started.

The new SensorTag is based on the CC2650 wireless MCU, offering 75% lower power consumption than previous Bluetooth low energy products. This allows the SensorTag to be battery powered, and offer years of battery lifetime from a single coin cell battery.

The Bluetooth low energy SensorTag includes iBeacon technology. This allows your phone to launch applications and customize content based on SensorTag data and physical location.

Additionally, the SensorTag can be enabled with ZigBee®/6LoWPAN technology.

Visit www.ti.com/sensortag for more information and to download software and design files.

Features

- More sensors!
  - Adds support for more low power sensors
  - 10 sensors including support for light, digital microphone, magnetic sensor, humidity, pressure, accelerometer, gyroscope, magnetometer, object temperature, and ambient temperature
- Lower power
  - Longer battery life from your coin cell and enabler of battery less applications
- High performance ARM Cortex M3 (CC2650)
- Cloud connectivity
  - Access and control your SensorTag from anywhere
  - Seamless integration with mobile apps
- DevPacks allows you to expand the SensorTag to fit your designs
  - Interchangeable between all SensorTag types
- Complete development system
  - Expandable with $15 debug DevPack
  - Code Composer Studio compiler license included
- Extreme flexibility for IoT applications
  - Enable ZigBee or 6LoWPAN through a firmware upgrade

What's Included

- Simplelink Bluetooth low energy SensorTag featuring the CC2650 wireless MCU
- CR2032 battery
- Quick Start Guide
- iOS and Android app, downloadable from App Store and Google Play

Cloud-based Development Tools

Begin development immediately with TI's cloud-based development tools. Resource Explorer allows you to browse available examples and documentation. Use the CCS Cloud IDE to get started with building projects.

> more

Order Now

Note: Purchase options are currently Mouser Electronics only. View all purchase options.

Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
CC2650STK: SimpleLink™ Bluetooth low energy/Multi-standard SensorTag	$29.00(USD) In Stock **Typically Ships in 1 to 3 business days** **Buy from TI**	Pricing may vary. **Buy from distributor**	ACTIVE

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Technical Documents

Solution guides (2)

Title	Abstract	Type	Size (KB)	Date	Views
📄 Connected Sensors Building Automation Systems Guide (Rev. A)		PDF	3639	25 Aug 2016	17,397
📄 Understanding Wireless Connectivityin the Industrial IoT		PDF	9416	22 Jul 2015	2,282

White papers (2)

Title	Abstract	Type	Size (KB)	Date	Views
📄 Bringing Wireless Scalability to Intelligent Sensing Applications (Rev. B)		PDF	775	25 Aug 2016	2,945
📄 A guide to SensorTag Hackathons: Resources		PDF	1010	08 Mar 2016	3,424

Design files (4)

Title	Abstract	Type	Size (KB)	Date	Views
📄 CC2650 SensorTag BOM (Rev. B)		PDF	35	06 Dec 2016	3,062
📄 CC2650 SensorTag Schematic (Rev. B)		PDF	92	06 Dec 2016	6,832
CC2650 SensorTag Gerber Files (Rev. A)		ZIP	2038	21 Apr 2016	1,631
CC2650 SensorTag 3D Files (Rev. A)		ZIP	7739	03 Sep 2015	943

More literature (6)

Title	Abstract	Type	Size (KB)	Date	Views
📄 SimpleLink Ultra-low power wireless microcontroller platform (Rev. B)		PDF	1439	28 Oct 2016	1,948
📄 Allegion Case Study (Rev. A)		PDF	437	12 Apr 2016	1,608
📄 CC2650RC Quick Start User's Guide		PDF	242	08 Mar 2016	6,328
📄 CC2650 SensorTag Quick Start Guide (Rev. A)		PDF	266	16 Feb 2016	4,354
📄 SimpleLink 6LoWPAN/ZigBee CC2630 Wireless Microcontroller		PDF	1852	10 Feb 2015	1,088
📄 SimpleLink Bluetooth Smart CC2640 Wireless Microcontroller		PDF	2312	10 Feb 2015	1,333

Related Products

Software (3)

Name	Part Number	Software Type
Bluetooth low energy software stack	BLE-STACK	Software Libraries

📄 BLE Device Monitor (v2.5.0) (Rev. N)
   (ZIP, 33070KB) 8704 views, 30 Mar 2017

📄 Build Your Own Dev Pack (Rev. A)
   (ZIP, 774KB) 3207 views, 16 Sep 2015

Development Tools (4)

Name	Part Number	Tool Type
Code Composer Studio (CCS) Integrated Development Environment (IDE) for Wireless Connectivity	CCSTUDIO-WCS	SW Development Tools, IDEs, Compilers
Sensor Controller Studio	SENSOR-CONTROLLER-STUDIO	SW Development Tools, IDEs, Compilers
SmartRF Flash Programmer	FLASH-PROGRAMMER	Flash Programming Tools
SmartRF Studio	SMARTRFTM-STUDIO	Calculation Tools

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Design Kits & Evaluation Modules (2)

Name	Part Number	Tool Type
CC2650 Smart RF06 Development Kit	CC2650DK	Development Kits
SimpleLink SensorTag Debugger DevPack	CC-DEVPACK-DEBUG	Evaluation Modules & Boards

Reference Designs (1)

Name	Part Number	Tool Type
SimpleLink™ Bluetooth Smart® SensorTag Reference Design	CC2650STK-RD	Reference Designs

TI Devices (8)

Part Number ⇕	Name	Product Family ⇕
CC2620	SimpleLink ultra-low power wireless MCU for RF4CE	Wireless Connectivity
CC2630	SimpleLink ultra-low power wireless MCU for 2.4-GHz IEEE 802.15.4-based RF Protocols	Wireless Connectivity
CC2640	SimpleLink ultra-low power wireless MCU for Bluetooth low energy	Bluetooth Low Energy (BLE)
CC2650	SimpleLink multi-standard 2.4 GHz ultra-low power wireless MCU	Multi-Standard
HDC1000	Low Power, 3% Accuracy Digital Humidity Sensor with Integrated Temperature Sensor	Sensing Products

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Videos

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Introduction to CC2650MODA Bluetooth® low energy RF module

The SimpleLink™ Bluetooth® low energy CC2650MODA device is a pre-certified RF module with integrated antenna, crystals and all necessary

Posted: 2017-04-10 03:55:00

Duration: 07:55

Views: 1732

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