

IoT Development Kit



*Configurable rapid prototyping platform
for Industrial IoT, Smart City/Building, and
mHealth applications from ON Semiconductor.*

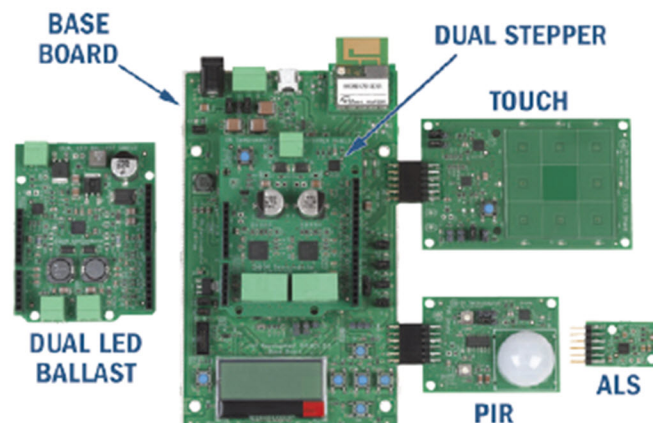


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IoT Development Kit

Features

- Comprehensive portfolio of sensors, connectivity and actuator devices
- Individual API for each and every device
- Complex C Code examples adapted to multiple applications
- Integrated development environment
- Full documentation of system hardware and software design
- Cloud software
- Ready to use for fast turnaround from concept to production



Markets & Applications



Motor Control



Climate & Sense Control



Lighting & Sense Control



Process Control



Motion Control



Position Control



Patient Monitoring



Healthcare

Modules Capabilities

Baseboard	BB-GEVK	Sensor: PIR motion	PIR-GEVB
Wireless Connectivity: SIGFOX™	SIGFOX-GEVB	Sensor: Ambient light	ALS-GEVB
Wired Connectivity: Power over Ethernet	POE-GEVB	Sensor: Touch/proximity/level	TS-GEVB
Wired Connectivity: CAN	CAN-GEVB	Actuator: Dual stepper motor	D-STPR-GEVK
Wireless Connectivity: EnOcean®	Pending 2Q17	Actuator: Dual LED + ballast	D-LED-B-GEVK
Wireless Connectivity: Thread™	Pending 2Q17	Actuator: BLDC motor control + power stage	BLDC-GEVB
Wireless Connectivity: Wireless Mbus	Pending 2Q17	Medical Sensor: Heart Rate Monitor	Upon Request
Wireless Connectivity: BLE	Pending 3Q17	Medical Sensor: Data Acquisition (Struix)	Upon Request

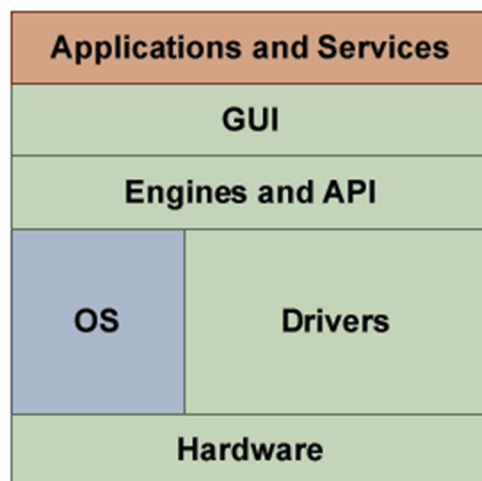
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Software Development Tool

Development Environment (IDE)	Eclipse (Mars) + CDT + GNU ARM® for Eclipse
Supported Operating Systems	Windows®
Baseboard Processor	ARM Cortex®-M3
Shield Boards	Connectivity, Sensors, Actuators
Operating System / RTOS	ARM mBed™
Toolchain	GNU tools for ARM
Debugger	gdb
Libraries	mBed, ON shield board libraries
IoT/Cloud Platform Support	Carriots, more to come...
IoT Protocols	REST, MQTT
Connectivity Protocols	SIGFOX, Thread, EnOcean, BLE, MBUS, PoE, Wi-Fi, CAN, SPI, I2C, UART

APIs and Examples

- 21 Application Programming Interfaces (API)
- 28 simple application examples
- 12 complex application examples



For videos, tools, and more information visit

www.onsemi.com/ldk