



IoT Development Kit



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

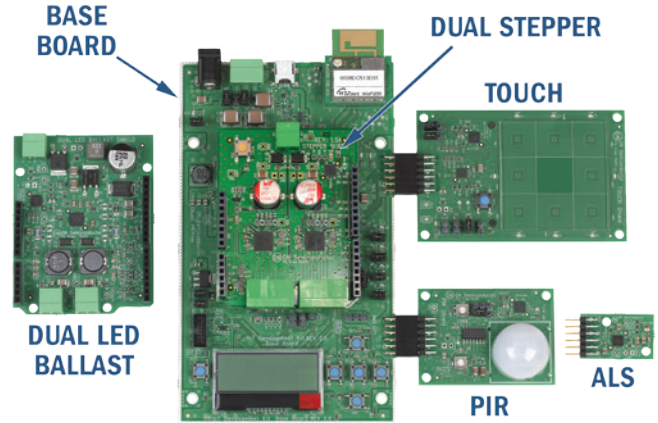


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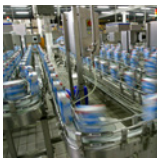
IoT Development Kit

Features

- Comprehensive portfolio of sensors, connectivity and actuator devices
- Individual API for each and every device
- Complex C++ Code examples adapted to multiple applications
- Eclipse based integrated development environment
- Full documentation of system hardware (schematics and layout files) 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



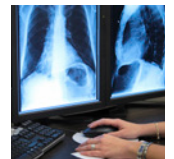
Motion Control



Position Control



Patient Monitoring



Healthcare

Modules Capabilities

Baseboard	BB-GEVK
Wireless Connectivity: SIGFOX™ EU	EU-SIGFOX-GEVB
Wireless Connectivity: SIGFOX™ US	US-SIGFOX-GEVB
Wired Connectivity: Power over Ethernet	POE-GEVB
Wired Connectivity: CAN	CAN-GEVB
Wireless Connectivity: Thread™	Pending 2H17
Wireless Connectivity: Bluetooth® Low Energy	BLE-IOT-GEVB

Sensor: PIR motion	PIR-GEVB
Sensor: Ambient light	ALS-GEVB
Sensor: Touch/proximity/level	TS-GEVB
Sensor: Smart Passive Sensor	SPS-READER-GEVK
Actuator: Dual stepper motor	D-STPR-GEVK
Actuator: Dual LED + ballast	D-LED-B-GEVK
Actuator: BLDC motor control + power stage	BLDC-GEVB
Medical Sensor: Heart Rate Monitor	Upon Request
Medical Sensor: Data Acquisition (Struix)	Upon Request

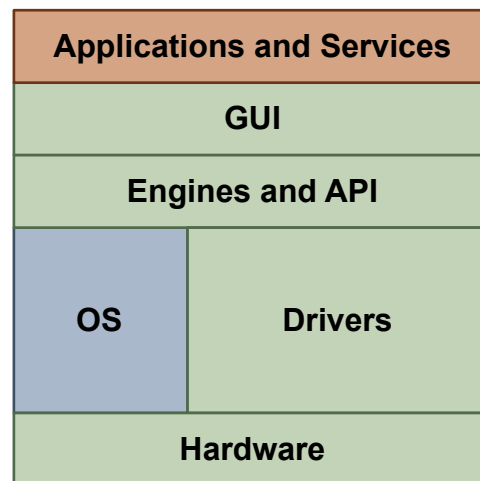
IoT Development Kit

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 Semiconductor shield board libraries
IoT/Cloud Platform Support	Carriots, compatible with most commercial cloud platforms
IoT Protocols	REST, MQTT, HTTP
Connectivity Protocols	SIGFOX, Thread, EnOcean, BLE, MBUS, PoE, Wi-Fi, CAN, Zigbee®

APIs and Examples

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



For videos, tools, and more information visit

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