

# Zoul

zolertia™ Integrate your products into the IoT

*The Zoul includes the perfect ecosystem to bring your products to the Internet of Things. The Zoul's ultra-low power consumption, IPv6 and easy integration give you the tools to connect your product and solutions to the Internet of Things with the faster time to market.*



Features	
Wireless interfaces	ISM 2.4-GHz IEEE 802.15.4 & Zigbee/Thread compliant ISM 868-, 915-, 920-, 950-MHz ISM/SRD Band
Power consumption	Down to 0.5uA (150nA with shutdown mode design)
Wireless range	Sub-1GHz Up to 25 Km (139-dB link budget, -123dBm sensitivity @1.2kbps), 2.4GHz interface up to 120 mts (-97dBm sensitivity, 250Kbps)
Power supply	3.3VDC
Processor	Powerful CC2538SF53 SoC ARM®Cortex®-M3 With Code Prefetch 32-MHz Clock Speed, 512KB Flash, 32KB RAM (16-KB with retention)
Temperature operation	Robust Device for Industrial Operation up to -40-100 °C
Communication ports	I2C, SPI, UART, 12-bit ADC x 8, USB 2.0 (12Mbps), GPIO x 29.
Hardware security	AES-128/256, SHA2 Hardware Encryption Engine ECC-128/256, RSA Hardware Acceleration Engine for Secure Key Exchange
Small form-factor	31x17 mm
Software support	Contiki OS, RIOT, OpenWSN, RTOS.
Compliance	Europe: ETSI EN 300 220, ETSI EN 54-25, EN 300 328, EN 300 440. US: FCC CFR47 Part 15, FCC CFR47 Part 90, 24, and 101. Japan: ARIB RCR STD-T30, ARIB STD-T66, ARIB STD-T67, ARIB STD-T108