



Infineon based solutions for motor and LED lighting along with voice processing via cloud connectivity

Description	Features
<p>The ZipMunk™ IoT kit utilizes Infineon’s industry leading XMC™ ARM® Cortex®-M0 based microcontroller, three IFX007T NovalithIC™ MOSFET half-bridge for motor control, and a BSSN306N OptiMOS™ 2 small signal MOSFET for LED lighting in combination with a WiFi/BT module from Inventek™ and vocoder from CML Microcircuits to explore cloud connected voice features securely by utilizing the Infineon OPTIGA™ Trust M SLS32AIA security chip.</p> <p>The kit is designed to evaluate the capabilities of securely connecting to IoT services enabling edge control and automation along with easy capturing of audio for processing in the cloud.</p>	<ul style="list-style-type: none"> ▪ XMC1404 (ARM®Cortex®-M0 based) Microcontroller, VQFN64Data rates up to 200 kbps ▪ 3 x IFX007T NovalithIC™ for brushed and brushless DC motor control ▪ BSS306N OptiMOS™ for LED control ▪ OPTIGA™ Trust M for security ▪ CMX655D vocoder from CML Mircocircuits ▪ Cypress based Wi-Fi/BT module from Inventek ▪ CAN interface for data ▪ XENSIV™ IM69D130 digital MEMS Microphone
Applications	Package

BLDC motor control
 LED lighting
 Digital audio/voice recording
 Cloud connected control and monitoring

ZipMunk IoT board
 Power adaptor
 BLDC motor
 LED module
 Debugger probe