ZIPMUNK™

NEUTRON CONTROLS

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

Description

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.

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.

Features

- 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

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

Package

ZipMunk IoT board
Power adaptor
BLDC motor
LED module
Debugger probe

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Mouser Electronics

Authorized Distributor

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[Neutron Controls](#):
  [NCF-ZPMK-A01](#)