STM32 ODE news from ST

September 2016

A handy set of signal conditioning solutions for your lab

The X-NUCLEO-IKA01A1 is a multifunctional expansion board based on ST's operational amplifiers arranged in a set of pre-defined, commonly-found configurations for signal conditioning in your STM32 ODE project. If you need – for instance – a highly accurate current sensing circuit, here's one based on the TSZ124 micropower op amp. Affordable and easy to use with X-CUBE-ANALOG1 expansion software, you will never part from the X-NUCLEO-IKA01A1. Read more

Build a wireless sensor node and harvest data with a handy app

The FP-SNS-ALLMEMS1 function pack combines all the middleware needed to create your application using ST's MEMS environmental, motion and position sensors, up to two microphones, and the BlueNRG, our Bluetooth low energy network processor. Build your wireless sensor node in minutes with the FP-SNS-ALLMEMS1 and a set of easy-to-use STM32 ODE boards. Using the BlueMS app that now supports FOTA updates, you can also display data from the sensors on your Android™ or iOS™ device in real time. Read more

Get your arms around groundbreaking ranging and gesture detection technology

Combined into a convenient evaluation pack, the P-NUCLEO-53L0A1 includes an expansion board based on the VL53L0X ranging and gesture detection sensor module and an STM32F401 Nucleo development board. Along with our free expansion software (X-CUBE-53L0A1), you'll be able to discover all the features and benefits of the world's smallest Time-of-Flight (ToF) ranging sensor allowing absolute distance to be measured independently of target reflectance. Read more

Spin your low-voltage stepper motor in minutes

The X-NUCLEO-IHM06A1 is an STM32 ODE expansion board based on the STSPIN220, a monolithic low-voltage driver for low-voltage stepper motors. It lets you instantly add high-precision, low torque, ripple motion control capability to your battery-operated STM32 ODE project – such as small robots and toys – thanks to its 1/256 step resolution. Together with the free X-CUBE-SPN6 expansion software, the X-NUCLEO-IHM06A1 will let you spin your design in just minutes. Read more

New intelligent power switch for driving complex grounded loads

The X-NUCLEO-IPS02A1 is an STM32 ODE expansion board based on the VPS2535H, a double-channel high-side driver with analog feedback and extensive protection features such as a load current limitation that protects the device during overload conditions. Together with the free X-CUBE-IPS02A1 expansion software, this board provides an affordable and easy-to-use solution for driving complex – inductive, capacitive, resistive – grounded loads such as heating elements, solenoids, LEDs, lamps, pumps and fans in your STM32 ODE project. Read more

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Seminars & conferences

STM32 Development Ecosystem hands-on workshop
Sep 13 to Dec 6, 2016
EMEA

STM32L4 ultra-low-power MCU hands-on seminar
Sep 13, 2016
Raleigh, NC (USA)

ST Developers Conference 2016
Oct 4, 2016
Santa Clara, CA (USA)

Webinars & online courses

STM32Cube basics: online course with hands-on exercises
May 12, 2016 - Dec 30, 2017

STM32F0/L0: online course with hands-on exercises

[Reduce dev costs with our NFC/RFID reader solution supporting all standards and functions](#)

The X-NUCLEO-NFC03A1 is an NFC card reader expansion board based on our CR95HF NFC/RFID reader IC. This reader provides multi-protocol support for 13.56 MHz NFC/RFID communications such as ISO/IEC 14443-A/B, ISO/IEC 15693, ISO/IEC 18092 and NFC Forum protocols. Equipped with STM32Cube software technology (X-CUBE-NFC3), it facilitates portability across different STM32 MCUs and includes drivers for the dynamic multi-protocol contactless transceiver IC. [Read more](#)

Events

Recent videos

[ctia Super Mobility 2016](#)
LoRa Alliance Booth #5132
Sep 7-9, 2016
Las Vegas, NV (USA)

[Take full control of your low-voltage or battery-powered stepper motor](#)

This step-by-step tutorial shows you how get up and running ST's X-NUCLEO-IHM06A1 expansion board based on the STSPIN220, a monolithic low-voltage driver for adding low-voltage stepper motor driving capabilities to your STM32 ODE project in just minutes. [Watch now](#)

[Latin America Utility Week 2016](#)
Sep 13-16, 2016
São Paulo, Brazil

[Find the best signal conditioning solution using our multifunctional op amp board](#)

[ARM TechCon 2016](#)
Oct 25-28, 2016
Santa Clara, CA (USA)

This step-by-step tutorial teaches you how to get up and running the X-NUCLEO-IKA01A1 multifunctional expansion board based on ST's high-precision op amps arranged in a set of pre-defined, commonly found configurations for signal conditioning, ideal in your STM32 ODE project for sensor interfaces, battery-powered applications and portable applications. [Watch now](#)