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News & Updates from STMicroelectronics

[Tiny 32-bit MCU-based BLDC motor driver greatly simplifies design challenges](#)

The STSPIN32F0 combines a 32-bit ARM® Cortex®-M0 STM32F0 microcontroller and a 3-phase, half-bridge gate driver in a tiny 7x7 mm QFN package, delivering the flexibility and power of a MCU-based drive with the simplicity and space-efficiency of a single IC. Ideal for BLDC motors in applications up to 45 V, it greatly simplifies design challenges by leveraging the extensive STM32 development ecosystem with motion-control algorithms such as field-oriented control (FOC) and 6-step control to streamline development. [Read more](#)



[Best-in-class power factor, efficiency, and reliability for LED lighting](#)

Operating directly from the rectified mains, ST's HVLED001A offline controller for LED lighting with constant-voltage primary-sensing, uniquely integrates both high- and low-voltage circuitry on the same chip, eliminating the cost of external high-voltage circuitry. The high power factor (>0.9), low total harmonic distortion (<10%), and high power-conversion efficiency (>90%) ensure compliance with the most stringent lighting standards in an efficient, compact, and cost-effective solution. [Read more](#)



[Ensure the highest efficiency design with our high PSRR, 200mA LDO](#)

The STEVAL-ISB037V1 board features the very low dropout LD39020 high-performance linear voltage regulator, configured to convert a DC input voltage from 2.4 to 5.5 V into a precise and stable 1.8 V output voltage solution using only two small ceramic capacitors. Featuring high PSRR and low quiescent current in a tiny 1x1 mm DFN4 package, it is designed for low-power battery-operated devices such as smartphones, tablets and wearables. [Read more](#)



[Wireless power transmitter for small systems requiring easy recharging](#)

Based on an STM32F0 MCU, the STEVAL-ISB039V1T wireless power transmitter is for small systems requiring easy recharging up to 2.5 W. A built-in USB connector supplies the transmitter and the SWD debugger connector lets you monitor system parameters such as battery charging level, power transmitted, efficiency, working frequency and power receiver identification. The firmware is a single STM32CubeMX platform-independent library providing a simple and easy-to-customize solution. [Read more](#)



[Evaluate ST's complete solution with Wi-Fi for driving 3D printers](#)

The STEVAL-3DP001V1 is a complete solution for driving all 3D printers including Delta models requiring more complex computation. Ideal for both beginners and experienced users, this autonomous solution can be used with a software interface or with custom firmware. Designed to drive 3D printers providing several axes (6 motors), several extruders (1 to 3), and multi-zone heating beds (1 to 3), it features integrated Wi-Fi connectivity for use with a smart device. [Read more](#)



[Tiny micropower comparator targets space-constrained applications](#)

The TS985 single micropower and low voltage comparator combines battery-friendly performance with enhanced dynamic range and high speed. The 6-bump chip scale package (CSP) with a footprint smaller than 1 mm² is a real advantage for overcoming space constraints



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such as smartphones, smartwatches, digital cameras, Internet of Things (IoT) devices, and portable test equipment. [Read more](#)

[STM32F7 online course](#)

[Explore ST analog solutions with application-based product selector](#)

The ST Analog cards help you choose the best op amps and comparators for your applications. Organized by application type such as smart home, automotive, wearable and industry, it describes the key parameters for each solution and highlights the best choice for longevity, robustness and performance. Looking at precision, package form factor, audio and supply range, or cost-optimized bills of material, it allows fast integration of analog products inside signal conditioning, monitoring and control solutions. [Read more](#)



Recent blog posts

[How to set up a complete LoRa™ node in just 10 minutes](#)

We've been talking about LoRa™ a lot recently. In our post Wireless Low Power WANs: An Internet of "Things" Spread Across a City, we looked at how this technology is being used to save energy and make our cities safer, using the city of Amsterdam as an example. [Read more](#)



[The 3D Printer Evolution Revolutionized by the STEVAL-3DP001V1](#)

Printing any 3D shape from the comfort of one's home is a dream we all share, but it is no longer the stuff of science fiction. 3D printers are becoming more affordable, printing centers are popping up in more communities, and even Microsoft has deemed 3D printing so mainstream that they made it a central part of their next Windows 10 Update, named Creators Edition. [Read more](#)



Events

[Electronica 2016](#)

Nov 8-11, 2016
Munich (Germany)

[European Utility Week 2016](#)

Nov 15-17, 2016
Barcelona (Spain)

[CESA 4.0 2016](#)

Nov 16-17, 2016
Paris (France)

[Embedded Technology 2016](#)

Nov 16-18, 2016
Yokohama (Japan)

[SPS IPC Drives](#)

Nov 22-24, 2016
Nuremberg (Germany)

[TRUSTECH & CARTES 2016](#)

Nov 29 to Dec 1, 2016
Cannes (France)

[Embedded Systems Conference Silicon Valley](#)

Dec 6-8, 2016
San Jose, CA (USA)