Releasing your creativity

Discover the STM32 family of microcontrollers & microprocessors
STM32: a developer-first strategy since 2007

**STM32 is a key enabler:** empowering embedded developers around the world to release their creativity.

We provide embedded developers with cutting-edge hardware and software technology, comprehensive support, and high-quality, reliable supply. This helps them build designs that are smarter, more connected, and more secure.

The first choice for 32-bit MCU developers
Source: Aspencore embedded survey, 2022

100,000+ customers

Our technology starts with You
Supporting developers’ needs

<table>
<thead>
<tr>
<th>More wireless connectivity</th>
<th>More advanced security</th>
<th>More autonomous decisions embedding AI</th>
</tr>
</thead>
<tbody>
<tr>
<td>More application specific added value IP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>More wired connectivity</td>
<td>More computing power 32-bit CPU Arm® Cortex® based Real-time OS (up to two cores)</td>
<td>Flexible memory interfaces</td>
</tr>
<tr>
<td>Lower power</td>
<td>More embedded flash</td>
<td>Optional</td>
</tr>
</tbody>
</table>
What the STM32 family offers

- Real-time performance
  - Powerful Cortex® cores
  - Multicore performance
  - Fast interfaces
  - Hardware accelerators

- Outstanding power efficiency
  - Ultra-low dynamic power consumption
  - Long lifetime, small battery
  - Sustainable technology

- Advanced, innovative peripherals
  - Graphic acceleration
  - Digital & analog peripherals
  - USB Type-C®
  - Peripherals for wireless and edge AI solutions

- Optimized integration
  - Best fit for application requirements (package size, cost, performance)
  - Safety & security features

- Extensive ecosystem
  - Comprehensive development tools
  - Wide range of partners
  - Community support

3,300+ part numbers

Rolling 10-year longevity commitment for continuous supply
The STM32 portfolio

Five product categories

- **Wireless MCU**
  - Short- and long-range connectivity

- **Ultra-low-power MCU**
  - 32-bit general-purpose microcontrollers: from 75 to 3,224 CoreMark score

- **Mainstream MCU**

- **High-performance MCU**
  - 32- and 64-bit microprocessors

- **Embedded MPU**

Enabling edge AI solutions
Scalable security
Addressing entry-level to high-performance applications

90+ package types from 5 to 784 mm²

Multiple memory options
From 8 Kbytes to 4 Mbytes flash memory
From 2 Kbytes to 2 Mbytes RAM

STM32C0
8 pins
16 Kbytes flash memory
32 MHz

XXS

XXL

STM32H7
240 pins
2 Mbytes flash memory
550 MHz

20- to 68-pin QFN
18- to 208-pin WLCSP
20-pin TSSOP
8-pin SO
32- to 208-pin LQFP
64- to 240-pin(+25) BGA

3,300+ part numbers
## STM32 portfolio

<table>
<thead>
<tr>
<th>Series</th>
<th>Model</th>
<th>CoreMark</th>
<th>CPU Speed</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STM32</strong></td>
<td><strong>N6</strong></td>
<td>High-performance MCU with neural processing unit</td>
<td>Up to 3224 CoreMark</td>
<td>550 MHz Cortex-M7 240 MHz Cortex-M4</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F7</strong></td>
<td>Ultra-low-power MCU</td>
<td>1082 CoreMark</td>
<td>216 MHz Cortex-M7</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>L0</strong></td>
<td>Wireless MCU</td>
<td>75 CoreMark</td>
<td>32 MHz Cortex-M0+</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>L4</strong></td>
<td>Ultra-low-power MCU</td>
<td>216 CoreMark</td>
<td>64 MHz Cortex-M4 32 MHz Cortex-M0+</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>U5</strong></td>
<td>Mixed-signal MCU</td>
<td>443 CoreMark</td>
<td>110 MHz Cortex-M33</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>MP1</strong></td>
<td>Latest product generation</td>
<td>Up to 1 GHz Cortex-A7 209 MHz Cortex-M4</td>
<td></td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>MP2</strong></td>
<td>Latest product generation</td>
<td>Dual 1.5 GHz Cortex-A5 400 MHz Cortex-M33</td>
<td></td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F2</strong></td>
<td>Mainstream MCU</td>
<td>Up to 398 CoreMark</td>
<td>120 MHz Cortex-M3</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F4</strong></td>
<td>Mainstream MCU</td>
<td>Up to 608 CoreMark</td>
<td>180 MHz Cortex-M4</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F0</strong></td>
<td>Mainstream MCU</td>
<td>106 CoreMark</td>
<td>48 MHz Cortex-M0</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F1</strong></td>
<td>Mainstream MCU</td>
<td>177 CoreMark</td>
<td>72 MHz Cortex-M3</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F3</strong></td>
<td>Mainstream MCU</td>
<td>245 CoreMark</td>
<td>72 MHz Cortex-M4</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F5</strong></td>
<td>Mainstream MCU</td>
<td>569 CoreMark</td>
<td>170 MHz Cortex-M4</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>F7</strong></td>
<td>Mainstream MCU</td>
<td>114 CoreMark</td>
<td>48 MHz Cortex-M0+</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
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</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>G0</strong></td>
<td>Mainstream MCU</td>
<td>142 CoreMark</td>
<td>64 MHz Cortex-M0+</td>
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<tr>
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<td></td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>WL</strong></td>
<td>Mixed-signal MCU</td>
<td>162 CoreMark</td>
<td>48 MHz Cortex-M4 48 MHz Cortex-M0+</td>
</tr>
<tr>
<td><strong>STM32</strong></td>
<td><strong>WB0</strong></td>
<td>Mixed-signal MCU</td>
<td>64 MHz Cortex-M0+</td>
<td>64 MHz Cortex-M0+</td>
</tr>
</tbody>
</table>
STM32 high-performance MCUs
STM32 high-performance MCUs

Up to 3224 CoreMark and a rich set of peripherals

**STM32H7**
- Dual Arm® Cortex®-M7 + Cortex®-M4 FPU at 480 MHz
- 1327 DMIPS and up to 550 MHz, 1177 DMIPS on single core Arm® Cortex®-M7
- From 512 Kbytes to 2 Mbytes of flash memory
- Very high performance with embedded flash & external memories

**STM32F7**
- Arm® Cortex®-M7 + FPU at 216 MHz – 462 DMIPS
- From 256 Kbytes to 2 Mbytes of flash memory
- Very high performance with embedded flash & external memories

**STM32H5**
- Most powerful Arm® Cortex®-M33 MCU yet – 375 DMIPS
- From 128 Kbytes to 2 Mbytes of flash memory
- Industry 4.0 and smart homes

**STM32F4**
- Arm® Cortex®-M4 + FPU up to 180 MHz – 225 DMIPS
- From 64 Kbytes to 2 Mbytes of flash memory

**STM32F2**
- Arm® Cortex®-M3 at 120 MHz – 150 DMIPS
- From 128 Kbytes to 1 Mbyte of flash memory
- Foundation lines for performance and connectivity

**STM32N6** preannouncement: more information coming soon.
STM32H5 MCU series for high performance designs

**Most powerful Arm® Cortex®-M33 MCU**
Industry-first 32-bit MCU with Arm® Cortex®-M33 core running as high as 250 MHz.

**Scalable security to address every need**
From the most essential security building blocks to fully certified services maintained by ST. First STM32 with TEE.

**Optimized cost/performance trade-off**
Based on ST’s optimized 40 nm process technology. Large choice of memory, peripherals, and package options.
STM32 mainstream MCUs
STM32 mainstream MCUs

Addressing a large variety of general-purpose applications

STM32F1
- Arm® Cortex®-M3 72 MHz – 61 DMIPS
- Performance and peripherals, user-friendly tools

STM32G0
- Arm® Cortex®-M0+ at 64 MHz – 59 DMIPS
- Maximum IO count per package
- Advanced function: analog, low-power, control

STM32F0
- Entry-level MCU for cost-sensitive operations
- Arm® Cortex®-M0 at 48 MHz – 38 DMIPS

STM32C0
- Arm® Cortex®-M0+ FPU at 48 MHz – 44 DMIPS
- Most affordable 32-bit MCU

Flash memory size (bytes)

<table>
<thead>
<tr>
<th>Pin count</th>
<th>16 K</th>
<th>32 K</th>
<th>64 K</th>
<th>256 K</th>
<th>512 K</th>
<th>1 M</th>
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<tr>
<td>8-pin</td>
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<td>20-pin</td>
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<td>36-pin</td>
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<td>48-pin</td>
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<td>64-pin</td>
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<td>100-pin</td>
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<tr>
<td>144-pin</td>
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</tbody>
</table>
STM32C0 MCU series
Your next 8-bit MCU is a 32-bit!

Streamline costs without compromising performance with ST’s most affordable 32-bit MCU.

Affordability
Helps you reduce costs thanks to an attractive price point and an optimized BOM.

Reliability
Benefits from proven STM32 quality & reliability.

Continuity
Consistent pinout with STM32G0 & shares same technological platform.
STM32 ultra-low-power MCUs
STM32 ultra-low-power MCUs

Ultra-low-power, market-proven solutions
150 DMIPS performance

STM32U5
- Arm® Cortex®-M33 + FPU at 160 MHz
- From 128 Kbytes to 4 Mbytes of flash memory
- Lowest power mode + RAM + RTC: 0.35 µA
- For IoT nodes and graphics

STM32L5
- Arm® Cortex®-M33 + FPU at 110 MHz
- From 256 to 512 Kbytes of flash memory
- Lowest power mode + RAM + RTC: 0.35 µA

STM32L4+
- Arm® Cortex®-M4 + FPU at 120 MHz
- From 512 Kbytes to 2 Mbytes of flash memory
- Lowest power mode + RAM + RTC: 0.39 µA

STM32L4
- Arm® Cortex®-M4 + FPU at 80 MHz
- From 64 Kbytes to 1 Mbyte of flash memory
- Lowest power mode + RAM + RTC: 0.34 µA

STM32L0
- Arm® Cortex®-M0 at 32 MHz
- From 8 to 192 Kbytes of flash memory
- Lowest power mode + RAM + RTC: 0.67 µA

Energy benchmark
- 464 ULPMark-CP
- 125 ULPMark-PP
- 54 ULPMark-CM
- 137000 SecureMark TLS
STM32U5 MCU series
the flagship of ultra-low-power MCUs

For IoT & embedded applications.
Up to 4 Mbytes of flash memory.

1st MCU certified by the NIST*

High energy efficiency/integration
Innovative power management features. Low Power Background. Autonomous Mode (LPBAM), DMA, and IP autonomous in LP mode.

High security & safety
AES and PKA, side attack resistant. PSA/SESIP level 3 certified. ECC on flash memory and SRAM.

Enhanced graphic performance
First STM32 with advanced graphics accelerators (ART Accelerator) & NeoChrom GPU based on Arm® Cortex®-M33 running at 160 MHz.

* the National Institute of Standards and Technology promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.
STM32 wireless MCUs
STM32 wireless MCUs

The ideal fit for RF designers looking for more than just a radio device

STM32WBA
- Arm® Cortex®-M33 w/ TrustZone® @ 100 MHz
- 1 Mbyte of flash memory / 128 Kbytes RAM
- Bluetooth® Low Energy 5.3 (long-range, 2 Mbps, advertising extension)
- Up to +10 dBm output power
- Enhanced security

STM32WB
- Dual core & security (Arm® Cortex®-M4 /-M0+)
- Up to 1 Mbyte flash memory/ 256 Kbytes RAM
- Bluetooth® Low Energy 5.4, Zigbee R22 & Thread, proprietary, Matter Q4’23

STM32WB0
- Arm® Cortex®-M0+ at 64 MHz
- Up to 512 Kbytes of flash memory / 64 Kbytes RAM
- Transceiver frequency: 2.4 GHz
- Power outputs: up to 8 dBm
- Bluetooth® Low Energy 5.3

STM32WL
- World 1st MCU enabling LoRa® (G)FSK, (G)MSK, BPSK
- Arm® Cortex®-M4 and -M0+ at 48 MHz supporting RF – 60 DMIPS
- Up to 256 Kbytes of flash memory / 64 Kbytes RAM
- Transceiver frequency: 150 to 960 MHz
- Dual-power outputs: up to 22 dBm and up to 15 dBm (Embedded PAs)
STM32WBA MCU series: performance, efficiency, and security for the IoT

Long-range wireless MCU, 2 Mbps, advertising extension
+10 dBm, high security level

Certified for Bluetooth® Low Energy 5.3
Long range, 2 MspS, advertising extension.
With +10 dBm of output power for better robustness.

Arm® Cortex®-M33 running up to 100 MHz
407 CoreMark score.
100 K cycles for 256 Kbytes of flash memory.

Certified security for faster time to market
Featuring TrustZone® technology.
SESIP level 3 target certification.
STM32WB0 MCU series: performance, efficiency, and security for the IoT

Short-range wireless MCU, 2 Mbps, advertising extension
+8 dBm, isochronous channel, high security level

Certified for Bluetooth® Low Energy 5.3
Upgradable, highly modular and robust Bluetooth® Low Energy stack, developed and maintained by ST.

High wireless performance
System performance: Arm® Cortex®-M0+ core at 64 MHz
Best-in-class radio enabling robust and stable connectivity

Longer battery life for IoT devices
High efficiency: 15.5 µA/MHz from Cortex-M0+ and 3.9 mA radio peak Tx current / 3.2 mA radio peak Rx current
STM32 microprocessors
STM32 microprocessors
Making your industrial applications future-proof

STM32MP25
Single or dual Arm® Cortex®-A35 up to 1.5 GHz
Arm® Cortex®-M33 at 400 GHz
NPU at 1.35 TOPS
time-sensitive networking support
3D GPU, 1080p platform

STM32MP2 series
Sampling at OEMs

STM32MP15
Single or dual Arm® Cortex®-A7 up to 800 MHz
Arm® Cortex®-M4 at 209 MHz
3D GPU 720p

STM32MP13
Arm® Cortex®-A7 up to 1 GHz
Power- and cost-efficient with high security

STM32MP1 series
Mass market availability
Certified security services for faster time to market
• SESIP L3 and PSA certified
• PCI ready

Power efficiency
• Best-in-class consumption in low power modes
• Over 90% energy savings in standby and VBAT modes

Certified security services for faster time to market
• SESIP L3 and PSA certified
• PCI ready

Accessible
• Strong, user-friendly ecosystem (OpenSTLinux, Linux-RT, RTOS)
• PCB layout reference designs

Cost-efficient MPUs for industrial and secure applications
STM32MP2 MPU series
a step up in performance

Next-gen STM32 MPUs for Industry 4.0 and edge AI solutions

Microprocessors for advanced edge computing
- 64-bit MPU with neural processing unit (NPU)
- 1.35 TOPS (tera operations per second)

Extended connectivity
- Time-sensitive networking (TSN)
- Up to 3 gigabit Ethernet ports (2-port switch)

Advanced multimedia
- 1080p graphics capabilities (3D GPU, H.264 hardware video Codec)
- RGB, MIPI DSI and LVDS displays

Sampling Q4 2023 / Production Q2 2024
Developer-first strategy: STM32Cube
STM32Cube design ecosystem

Hardware tools and software helping you every step of your design journey
STM32Cube framework

Helping developers release their creativity

- Comprehensive offer helping you accelerate your development
- Focus on quality, compatibility, and stability
- Documentations, trainings and worldwide support channels

Applicative reference implementations

Extension libraries and AI toolkit

Hardware
Embedded SDK
Development tool kit
Development resources
STM32Cube framework

MCU, boards & software selection

Hardware and software configuration

Application development and debugging

Code & hardware programming

Runtime application monitoring

STM32 Finder

STM32CubeMX

STM32CubeMCU Packages

STM32CubeExpansion

STM32CubeIDE

STM32CubeProgrammer

STM32CubeMonitor

Worldwide support channels

Verticals and partners solutions

IDEs from Partners

Programmers from Partners
STM32 hardware evaluation tools

Easy prototyping, accurate evaluation, and board design references

 STM32 Nucleo boards
Discovery kits
Evaluation boards
Expansion boards
Accessories
Partner boards

Flexible prototyping
Evaluating key features
Full feature evaluation
Add-on functionalities
From full evaluation to open hardware

70+ references
40+ references
25+ references
100+ references
20+ references

$10 $30*
$10 $100*
$100 $500*
$10 $30
$100 $500

*recommended resell price (RRP)
Efficient and flexible access to the MCU features

<table>
<thead>
<tr>
<th>LL drivers</th>
<th>HAL drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower abstraction level</td>
<td>Higher abstraction level</td>
</tr>
<tr>
<td>Lower code size</td>
<td>Higher portability and reuse</td>
</tr>
</tbody>
</table>

MISRA C compliant, statically analyzed, rigorously tested

Large set of production-ready examples

Available from st.com, GitHub, or STM32Cube tools
STM32CubeMCU Packages

Faster development with an optimized and ported selection of market-reference middleware stacks

<table>
<thead>
<tr>
<th>Middleware</th>
<th>Expansions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AzureRTOS ThreadX and FreeRTOS™</strong></td>
<td>TouchGFX graphics solution,</td>
</tr>
<tr>
<td><strong>AzureRTOS USBX</strong></td>
<td>Motor control,</td>
</tr>
<tr>
<td>- With support of audio, CDC, HID, DFU, PIMA, Printer, and storage host and device classes</td>
<td>Artificial intelligence</td>
</tr>
<tr>
<td><strong>AzureRTOS NetXDuo</strong></td>
<td>MEMS and sensors</td>
</tr>
<tr>
<td>- With support of TCP, UDP, IPv4, IPv6, http, MQTT, LWM2M, FTP, PPP, SMTP, and telnet</td>
<td>Secure cloud connectors</td>
</tr>
<tr>
<td><strong>FileX and levelX</strong></td>
<td>Functional Safety self-test library</td>
</tr>
<tr>
<td><strong>USB PD and open bootloader</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Secure boot, Secure Manager API</strong></td>
<td></td>
</tr>
</tbody>
</table>

**A large set of applicative examples**

Available from st.com, GitHub, or STM32Cube tools
STM32 Developer Zone for MCUs & MPUs

Everything for STM32 MCU developers, in one place

A user-friendly environment to help developers every step of their design journey

Direct access to products, hardware and software tools, embedded software, developer resources

STM32 MCU Developer Zone
STM32 MPU Developer Zone
Watch the short video
A growing base of partners addressing customer challenges

- Software development tools
- Training
- Hardware development tools
- Engineering services
- Embedded software
- Design houses
- Evaluation boards
- Global services
- Development boards
- Companion devices
- Hardware integrated devices

Click to discover our partners
Solutions with STM32
Helping you build advanced HMIs with a comprehensive STM32 graphics offering

STM32 hardware

TouchGFX
STM32 software
GUI development tools, GUI code Examples, library of graphical assets

Extensive Ecosystem

Introducing NeoChrom GPU
NeoChrom GPU offloads the CPU from the graphic computations, freeing up the memory and boosting performance. Fully supported in X-CUBE-TOUCHGFX.

Watch demos, tutorials and more
Making edge AI more accessible with STM32 solutions

• 3 products for embedded developers and data scientists
  - **NanoEdge AI Studio**
    - User-friendly Auto-ML tool for STM32 MCUs

• Covering a broad variety of applications
  - **Anomaly Detec. + L.O.D.**
    - Anomaly detection
    - Predictive maintenance
    - Learning on device
  - **Sensing**
    - Sensor analysis
    - Activity recognition (motion sensors)
    - Stress analysis or attention analysis
  - **Audio**
    - Audio (key word, scene detection)
    - Speech (sentences) recognition
    - Speech synthesis
  - **Vision**
    - Multiple object detection
    - Face/object analysis (face detection)

[stm32ai.st.com](http://stm32ai.st.com)
Fast-track your certification journey to meet functional safety standards with STM32

ST provides certified **functional safety packages** and documentation based on robust built-in MCU/MPU safety features.

- **SIL functional safety package** for industrial IEC 61508 (STM32)
- **ASIL functional safety package** for automotive ISO 26262 (STM8A)
- **Class B functional safety package** for household electrical appliances IEC 60335-1/60730-1 (STM32 & STM8)
Building trust in embedded systems: the pillars of STM32Trust

**Secure hardware**

**Root of Trust**

**Certification & regulation**

**Software & services**

Security ecosystem

- STM32Trust TEE
- Security services
- STM32Cube framework

Provide the right levels of security assurance thanks to the STM32Trust security functions

www.st.com/STM32Trust
<table>
<thead>
<tr>
<th>Category</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPU</td>
<td>PSAL1 STM32MP15</td>
</tr>
<tr>
<td>High-performance MCUs</td>
<td>PSAL1 STM32H7</td>
</tr>
<tr>
<td>Mainstream MCUs</td>
<td>PSAL3 SESIPL3 STM32H5</td>
</tr>
<tr>
<td>Ultra-low-power MCUs</td>
<td>PSAL1 STM32L4/L4+</td>
</tr>
<tr>
<td>Wireless MCUs</td>
<td>PSAL1 SESIPL3 STM32L5</td>
</tr>
<tr>
<td></td>
<td>PSAL3 SESIPL3 STM32U5</td>
</tr>
<tr>
<td></td>
<td>PSAL3 SESIPL3 STM32WBA52</td>
</tr>
</tbody>
</table>
Ease STM32 adoption for motor control

Providing development platform: MC-SDK (firmware library + workbench), MC pilot, MC profiler, hardware boards, documentation.

Innovative products/peripherals and software algorithms

- Advanced motor control timer
- Rich and advanced analog peripherals embedded in the STM32
- Motor profiler

Leverage ST portfolio

Large choice of power components and STM32 to create end-to-end motor control solutions.
Digital power with STM32

Ease STM32 adoption for digital power converters
Development platforms:
DP SDK (PFC and PSU topology examples generator, firmware lib),
hardware boards, docs, development tools.

Innovative products/peripherals and software algorithms
- High-resolution timer supporting numerous digital power topologies
- Rich and advanced analog peripherals embedded in STM32
- Hardware coprocessor usage
- Biricha method implementation (ST Authorized Partner)

Leverage ST portfolio
Large choice of power components and STM32 to create end-to-end digital power solutions.

PFC and PSU within STM32CubeMX
Firmware pack importation with PFC and PSU topologies implementation in voltage or in current mode running on ST boards.

LATEST NEWS
STM32 for digital power
USB-C® and power delivery with STM32

More than 560 STM32 MCUs feature a certified USB Type-C® and PD3.1 controller

STM32 supports the latest USB-C® and PD3.1 standards
- SPR and EPR power range up to 240 W, PPS ready
- Sink, source, dual-role power and data roles

Optimize bill of material and safety
- CC logic, PD transceiver PHY, USB2 device/host interface
- Companion type-c port protection devices (TCPP0x)

Flexible solution and fast prototyping
- Ready-to-use hardware and firmware examples
- Easy debug with STM32CubeMonUCPD software tool

www.st.com/STM32usbc
Resources to move forward with your design

Hundreds of thousands of developers are using STM32! Join them, share insights, and accelerate your design.

FIND INSIGHTS
- Visit the STM32 Community
- STM32 MPU Wiki
- STM32 MCU Wiki
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