

New Product Announcement

Mouser Now Stocking NXP's MPC5777C Power Architecture MCU for Industrial and Automotive Engine Management

June 18, 2019 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [MPC5777C](#) Power Architecture® microcontroller from [NXP Semiconductors](#). Boasting three dual-issue, 32-bit CPU core complexes, the high-performance microcontroller supports demanding [automotive](#) and [industrial](#) engine management applications such as electric DC [motor control](#), aerospace engines, and Ethernet and CAN FD connectivity, plus automotive applications that require compliance with SIL-1 and ASIL-D functional safety requirements.

The [NXP MPC5777C](#) Power Architecture microcontroller, available from Mouser Electronics, features two independent Power Architecture z7 cores offering up to 300 MHz operation, as well as a single z7 core operating in lockstep with one of the main computational cores. The two main cores offer signal processing extension instruction support for digital signal processing, as well as 16 Kbytes of I-cache and 16 Kbytes of D-cache. The microcontroller offers 8 Mbytes of on-chip flash memory, in addition to 512 Kbytes of on-chip general purpose RAM (including 64 Kbytes of standby RAM).

The device's two enhanced queued analog-to-digital converter (eQADC) modules provide support for 70 analog input pins, which can be expanded to 182 inputs using off-chip multiplexers. The highly secure MPC5777C microcontroller includes on-chip security encryption protection using a tamper detection module and cryptographic services engine for tamper-proofing.

The NXP MPC5777C Power Architecture microcontroller is supported by the [MPC5777C-DEVB](#) development board, which enables the development of both hardware and software for applications such as battery management systems, traction motor control, and internal combustion engines and transmissions. The versatile development board includes an MPC5777C microcontroller together with MC33FS6520LAE System Basis Chip (SBC) and the TJA1100 and TJA1145T/FD Ethernet and CAN FD PHY transceivers.

To learn more about the NXP MPC5777C Power Architecture microcontroller, visit www.mouser.com/nxp-mpc5777c-mcu.

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About Mouser Electronics

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