

EMBEDDED WORLD 2021

## Embedded module with two CAN FD ports

Emtrion presents the Emstamp Argon computer-on-module at the Embedded World 2021 digital exhibition. The board provides two CAN FD interfaces.



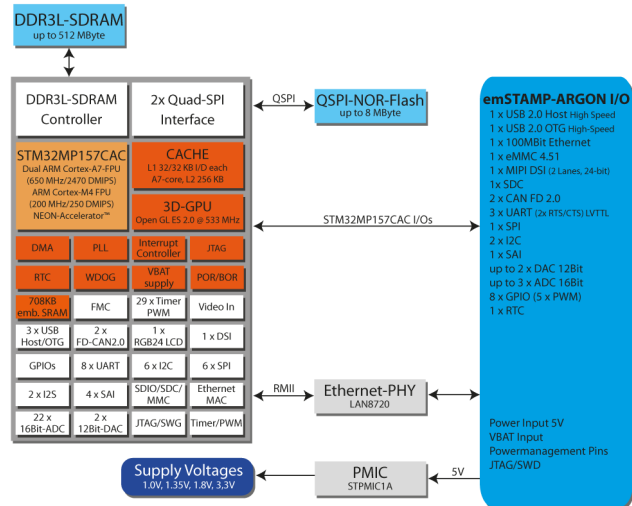
The board is dedicated for industrial Internet of Things and communication systems (Source: Emtrion)

The board is based on the STM32MP157 processor from ST Microelectronics. Including dual ARM Cortex-A7 (650 MHz) and ARM Cortex-M4 (200 MHz) cores, it is suitable for use in industrial Internet of Things systems, engine control, and industrial communication systems. An ARM Neon co-processor, a 512-MiB SDRAM, and a 2-MiB NOR-Flash are embedded as well.

The two CAN FD interfaces of the STM32MP157 are directly connected to the dual-row pin-header J7 with 10 pins. The CANopen higher-layer protocol is supported. Optionally, Profinet, Ethercat, and Ethernet/IP protocols can be implemented. The Cortex-M4 core uses the ecosystem of the STM32 MCU

(micro-controller unit) with reusable codes. The board dimensioning 32 mm x 32 mm x 4 mm requires a supply voltage of 5 V and operates at temperatures from -40 °C to +85 °C.

The module is available with the operating system Linux. Board support packages (BSP) for other operating systems are available as well. Emtrion guarantees board availability of up to 15 years. The manufacturer also offers complementary services, such as virtualization, suitable security solutions, and developer kits.



Emstamp Argon block diagram (Source: Emtrion)

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