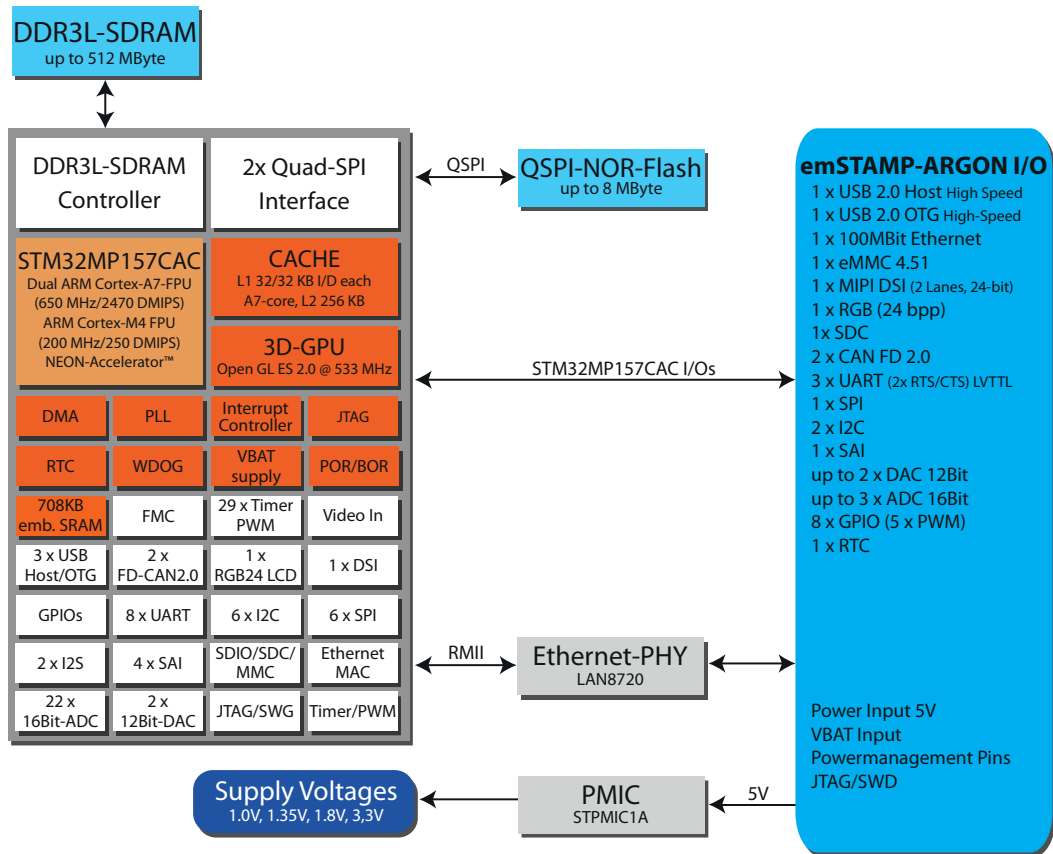
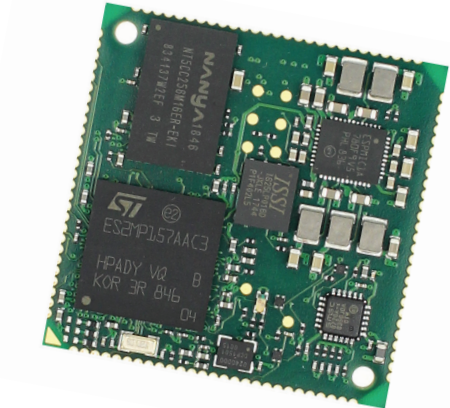


# emSTAMP-Argon based on STM32MP157CAC




## Getting started with your embedded development!

### Reduce your time to market with emtrion Developer Kits!

With an emtrion developer kit you can easily start your application development and reduce your time to market.

emtrion's engineers are unique experts in hardware and software development. The embedded solutions are all from one source.

## emSTAMP-Argon

	emSTAMP-Argon	emSBC-Argon
		
Operating system	Linux	
CANopen Master/Slave	yes	
CPU manufacturer	STMicroelectronics	
CPU	STM32MP157CAC	
CPU architecture	ARM Dual Cortex-A7, ARM Cortex-M4	
CPU performance	up to 2 x650 MHz - 2470 DMIPS + up to 200 MHz - 250 DMIPS	
Co-Processor	ARM Neon™, FPU	
3D-Hardware GPU	OpenGL ES2.0 @ 533 MHz	
Security	Crypto, TRNG, tamper, secure boot, Trust Zone	
RAM	up to 512 MByte DDR3L SDRAM	
NOR-Flash	up to 8 MByte QSPI-NOR-Flash	
eMMC 4.51	-	4-64 GByte
I <sup>2</sup> C	2 x	
Ethernet	1x 100MBit	
SPI	1 x	
USB 2.0 (High Speed)	1 x Host, 1 x OTG	
CAN FD 2.0	2 x	
UART	3 x (2 x RTS/CTS)	
GPIO	8 x (5 x PWM)	
LCD DSI	2 data lanes 24-Bit	
LCD RGB	1 x 24 Bit	-
SAI	1 x	
ADC 16Bit	up to 3 x	
DAC 12Bit	up to 2 x	
LED	green / red	
MMC / SDC	1 x SDC	1 x Pinheader or 1 x μSD-Card
Debug	SWD/JTAG	-
RTC-battery-supply	1 x	1 x battery holder with CR1225
Power Management (PowerDown, Wake)	yes	
Operating temperature	-40°C ... +85°C	0°C ... +70°C
Size in mm	32,0 x 32,0 x 4,0	104,5 x 77,5
Customer specific solutions	yes	
easy layout integration	1,0mm I/O-Pitch (all Finepitch on CoM)	

Subject to change without notice.  
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