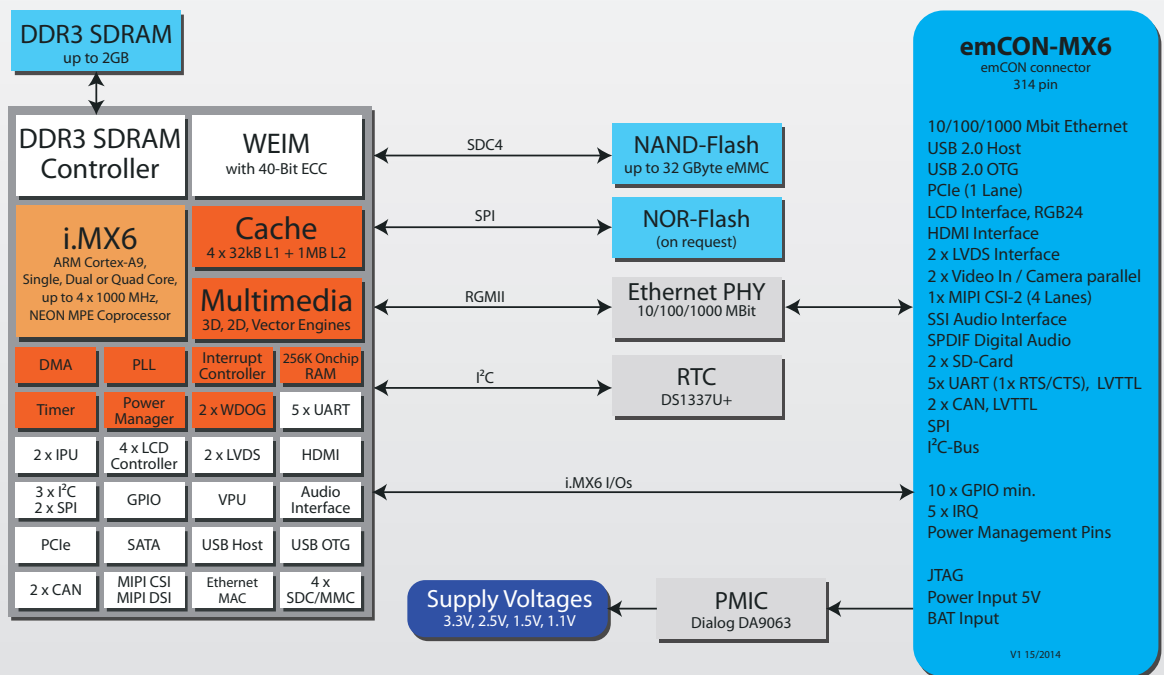


emCON-MX6D
emCON-MX6Q

Processor module

with NXP dual/quad core Cortex-A9 processor



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.

emCON-MX6 D/Q as CPU-Module or Single Board Computer

	emCON-MX6D	emCON-MX6Q	SBC
			
Product	emCON-MX6D	emCON-MX6Q	emCON-MX6-SBC
Windows	WEC on request		
Linux	Linux		
QNX	QNX on request		
Android	Android		
CPU manufacturer	NXP i.MX6		
CPU architecture	ARM Cortex-A9 (dual core)	ARM Cortex-A9 (quad core)	ARM Cortex-A9 (dual/quad core)
CPU performance	2x 1 GHz - up to 5.000 MIPS	4x 1 GHz - up to 10.000 MIPS	up to 4x 1 GHz - up to 10.000 MIPS
Co-Processor	2x ARM NEON™	4x ARM NEON™	up to 4x ARM NEON™
Video processing (hardware accelerated)	H.264 decode at 2x 1080p30, H.264 encode at 2x 720p30 or 1x 1080p30		
2D (hardware accelerated)	openVG 1.1		
3D (hardware accelerated)	OpenGL ES 2.0 & 1.1, Direct3D		
GPU Computing	openCL EP		
RAM	512 MB up to 2GB DDR3-SDRAM		
Flash	up to 64 GB eMMC		
Ethernet	1000Base-T / 100Base-TX / 10Base-T		
UART	5		1x RS232, 4x LVTTTL
USB Host	2.0 high speed		3x 2.0 high speed via USB hub
USB Device	2.0 high speed (OTG)		
Serial-ATA	SATA II (3 Gbps)		
PCIe	1 Lane		miniPCI Express interface
Digital Audio	SPDIF IN/OUT		
Analog Audio	SSI interface		Stereo out
LCD interface	4 Interfaces, up to Full-HD (1x RGB, 2x LVDS, 1x HDMI 1.4)		4 Interfaces, up to Full-HD (1x RGB, 2xLVDS, 1x HDMI 1.4)
Video In/Camera	YUV422 interface for 2 x CMOS Cameras up to 16MPixel or PAL/NTSC CODEC		YUV422 interface for 1 x CMOS Cameras up to 16MPixel or PAL/NTSC CODEC
	MIPI CSI-2 Interface (4 Lanes)		MIPI CSI-2 Interface (2 Lanes)
CAN	2 x 2.0 A/B		2 x 2.0 A/B (LVTTTL)
I2C	1		
SPI	1		
Digital GPIO	min. 8		min. 8
MMC/SDC	2 x MMC/SD (SDIO)		1 x micro SD
RTC (battery buffered)	yes		1x battery holder with CR1632
JTAG	yes		
Size in mm	82 x 50 x 10		150 x 100 x 18
max. power consumption	5V @ 2A max.	5V @ 3A max.	5 V @ 5A max.
Operating temperature	0...+70°C, opt. -40...+85°C		0...+70°C, opt. -25...+85°C
Interface to carrier board	emCON connector (314 pos.)		
Carrier boards available	yes		-
Developer kits available	yes		yes
Custom specific solutions	yes		yes

Subject to change without notice.
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emtrion GmbH
Am Hasenbiel 6
D-76297 Stutensee
Tel. +49 (0) 7244 62694-0
Fax +49 (0) 7244 62694-19
E-Mail sales@emtrion.com

Visit us online at:
www.emtrion.com