

DIMM-MX53

Processor module

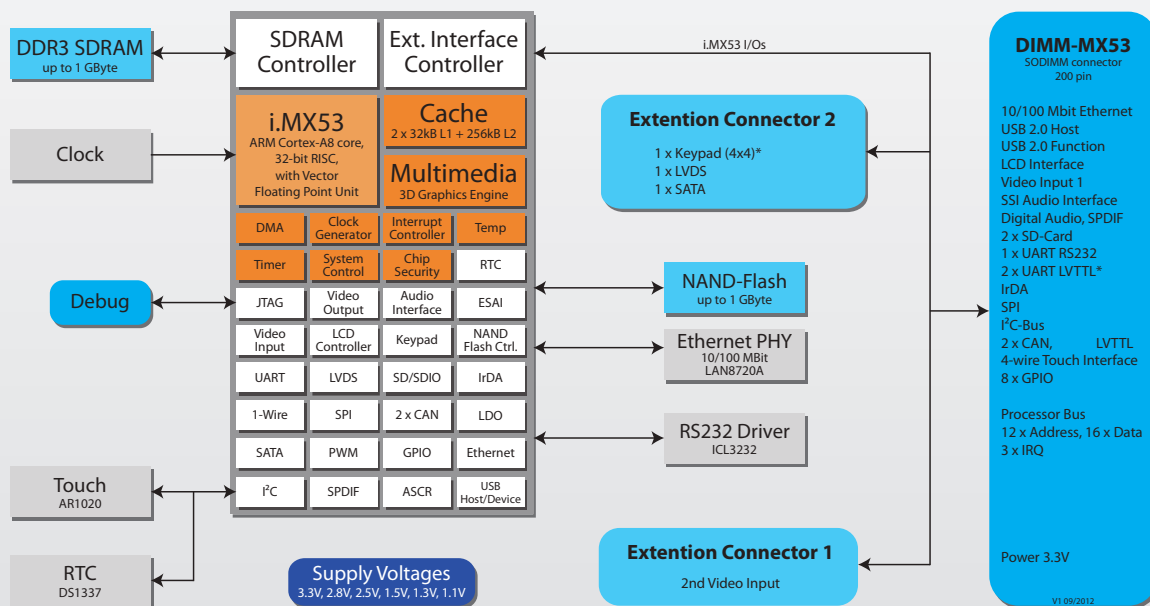
SODIMM sized also for your embedded multimedia projects



DIMM-MX53
Dimensions: 67.6 x 50 mm



SBC
Dimensions: 100 x 125 mm



* If Keypad not used 2 additional UART's and on additional I²C bus can be used
** An IrDA port can only be used, if a UART port is not used

Getting started with your embedded development!

Reduce your time to market with emtrion Developer Kits!

Besides its strength in hardware development, emtrion has also excellent know-how in software development and is able to offer your embedded solution "All from one source".

With a developer kit you can easily start your application development and have a shorter time to market.



DIMM-MX53 as CPU-Module or Single Board Computer

	DIMM-MX535	DIMM-MX537	SBC
			
Product	DIMM-MX535	DIMM-MX537	DIMM-MX53-SBC
Windows CE	WEC		
Linux	Linux		
QNX	QNX		
Android	Android on request		
CPU	Freescale		
	i.MX535 (ARM Cortex-A8)	i.MX537 (ARM Cortex-A8)	i.MX53 (ARM Cortex-A8)
	1 GHz	800 MHz	up to 1 GHz
	2000 MIPS	1600 MIPS	up to 2000 MIPS
Multimedia	MPEG-4 H.264 HW accelerator for video encode and decode		
Coprocessor	FPU		
Flash	up to 1GB NAND Flash		
RAM	up to 1GB		
Ethernet	100Base TX		
UART: RS232/LVTTL/IrDA	1 / 2 / 0		
USB Host	2.0 high speed		
USB Device	2.0 high speed		
Digital Audio	-		
Analog Audio	SSI interface		Stereo out
Video In/Camera	YCrCb 4:2:2 interface for 2xCMOS Camera up to 12MPixel or PAL/NTSC codec		YCrCb 4:2:2 interface for 1xCMOS Camera up to 12MPixel
Video out	-		
CAN	-	2 x 2.0 A/B	up to 2 x 2.0 A/B
I2C	1		
SPI	1		
Digital GPIO	8		
MMC/SDC	2 x MMC/SD (SDIO)		1 x micro SD
Touch interface	4-wire resistive, optional capacitive		
RTC (battery buffered)	yes		1x battery holder with CR1632
LCD interface	2 display interfaces up to Full-HD		1 Display interface (TTL RGB) up to Full-HD
Size in mm	67.6 x 50 x 10		125 x 100 x 18
max. power consumption	3,3V @ 1A		3,3 V @ 1A
Operating temperature	0...+70° C, opt. -40...+85° C		0...+70° C, opt. -25...+85° C
Interface to carrier board	Processor bus and I/O via SODIMM connector (200 pos., 2.5V keying)		
Carrier boards available	yes		-
Developer kits available	yes		yes
Custom specific solutions	yes		yes
NOT RECOMMENDED FOR NEW DESIGN			

Subject to change without notice.
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