

Low power SODIMM-200 based on NXP® i.MX 6ULL with Arm® Cortex®-A7 Core.

Features

- Compact size
- Industrial and commercial operating temperatures available
- Options with up to 8Gb NAND Flash and 1GB RAM
- On board Ethernet PHY with additional RGMII interface
- Only a single 3.3V supply required
- Optimized for low cost



Applications

- Power metering and smart grid
- Network gateways
- Connected devices
- Human Machine Interfaces – control panels

Support

- Yocto Linux based BSP
- Virtual machine for easy set-up of environment and system image
- **Software and hardware integration services**
- **EVB - Carrier board for SOM module available**

Technical specifications				
Model available	99.0290.0001	99.0290.0002	99.0290.0003	99.0290.0004
CPU	MCIMX6Y2CVM08AB		MCIMX6Y1CVM05AB	
Architecture	32-bit Arm® Cortex®-A7			
RAM	1Gb	8Gb	1Gb	8Gb
NAND Flash	2Gb	8Gb	2Gb	8Gb
Ethernet	10/100 PHY			
Clock speed	792 Mhz		528 Mhz	
MIPS	1.9 DMIPS/MHz			
Operating temperature (industrial range)		-40°C +85°C		
dimensions		25.5 x 65.5mm		

Hardware accelerators	PXP, ASRC, FPU
Security features	ARM TrustZone, SJC, SNVS, CSU, A-HAB
Module Power	
Required power	3V3 (optional RTC backup voltage)
Current	Theoretical Maximum 1200mA with all peripherals active (not fully characterized)
Power	4W (not fully characterized)
MPU Peripherals	
UART	Max 7
CAN	Max 2
I2C	Max 3
SPI	Max 3
ADC	Max 2
Timer/PWM	Max 4/8
USB	1 Host (external 5V required) + 1 OTG
LCD	EPD, RGB WXGA
Network	On-board 10/100 PHY, supports additional PHY on RGMII port
SD Card Host	Max 1 (selectable boot)
JTAG	Available on DIMM pads

Refer to datasheet and application manual for proper pin multiplexing: above peripherals may share physical I/Os.

These specifications are subject to change without notice, and they are valid errors or omissions excepted.

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