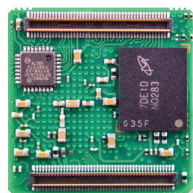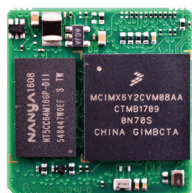# MICROGEA MX6ULL
Ultra compact SOM based on NXP™ i.MX 6ULL processor

HIGHLIGHTS

- Ultra-small form factor SOM based on Cortex®-A7
- Single 3.3V power supply
- e-paper driving capability
- Suitable for MCU replacement

APPLICATIONS

Industrial	Digital Signage Infotainment	e-paper display	Transportation	Robotics	Biomedical/ Medical devices

FEATURES

CPU	NXP® i.MX 6ULL		**PCIe**	None	
Cores	Cortex-A7@ Up to 900MHz		**Audio**	I2S interface	
Memory	Up to 512 MB DDR3-800		**Pheripheral Interfaces**	Up to 3 I2C Up to 3 SPI Up to 8 PWM Up to 7 UART Up to 2 CAN Bus Up to 2 SDIO interfaces Up to 2 ADC	
Graphics	Electrophoretic Display (EPD) controller Pixel processing pipeline (PXP) to support 2D image processing including color-space conversion, scaling, alpha-blending, and rotation				
			Power Supply	Single + 3.3V Additional +5V for USB	
Video Interfaces	1x Parallel LCD 1x EPD		**Operating System**	Linux	
Video Resolution	Up to WXGA (1366x768) for LCD Up to 2048x1536 for EPD		**Operating Temperature***	Commercial Industrial	
Mass Storage	Nand Flash		**Dimensions**	25 mm x 25 mm	
Networking	1 x 10/100 Ethernet interface 1 x RMII interface				
USB	2 x USB				

* Valid for all components except CPU.
Customer shall consider junction temperature for CPU.
Temperature will widely depend on application.
Specific cooling solutions could be necessary for the final system.

PRELIMINARY: All the informations are preliminary and can be change without notice.

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