

## i.MX6UL-2 SoM THE MIGHTY MIDGET!

### COMPUTING POWER, COMMUNICATION AND GRAPHICS ON 25 MM X 25 MM COMPLEX APPLICATION PROCESSOR AS EASY TO USE AS A MICROCONTROLLER!

The Internet of Things (IoT) demands ever smaller, higher-powered but nevertheless cost-efficient controller solutions with high requisites in terms of computing power, interface variety and driver support.

Accordingly, we have added the Ultralite Derivatives series to the lower-price segment of our i.MX6 microprocessor family. For the price of microcontroller, you now get a high-performance application processor with a Cortex A7 core, 528 MHz pulse frequency and a variable-configuration interface landscape.

exceet's postage stamp-format SoM lets you combine complex computing performance with low-cost, easy-to-implement baseboards. In this way you can quickly develop mature, industry-capable solutions while relying on long-term availability of our processor modules.

#### FEATURES

- Embedded application and control processor
- Module featuring Cortex A7 architecture, RAM and Flash, Ethernet and serial interfaces, GPIOs as well as I<sup>2</sup>C, SPI and LCD interfaces
- Pre-installed embedded Linux operating system incl. all drivers for communication and LCD/touch interfaces

#### CLIENT BENEFIT

- Quick and easy realization of complex processor solutions
- Low-cost solutions available as 2-layer baseboards and higher
- No special layout knowhow needed for DDR3 RAM connectivity
- Short time to market
- Requires only one voltage supply (3.3V)

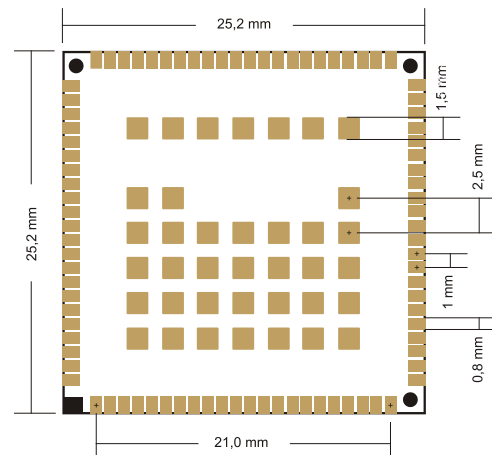
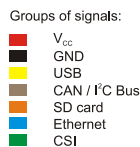
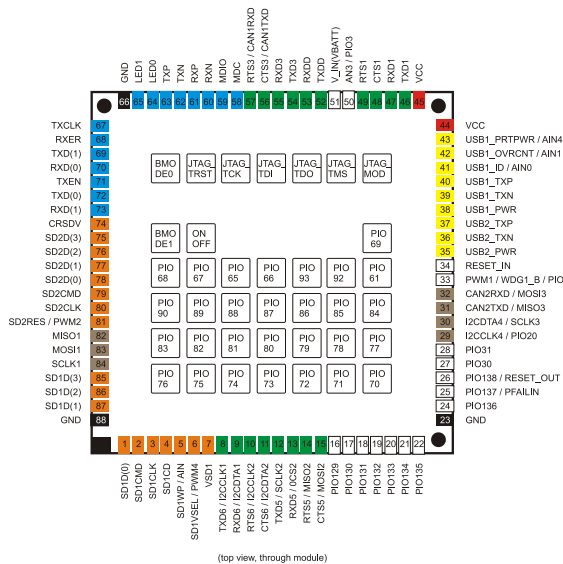
#### APPLICATIONS

- Industry
- Medical technology
- Communications
- IoT
- M2M
- Single processor module for wide range of baseboard families
- Minimum-footprint applications



# TECHNICAL DATA

Function	Standard Layout	Optional
<b>PROCESSOR</b>		
CPU	i.MX 6UltraLite 2 (Cortex A7, 528 MHz)	
<b>MEMORY</b>		
DDR3-RAM	256 MB	512 MB / 1 GB
NOR-Flash	1 MB	
NAND-Flash	256 MB	512 MB
<b>COMMUNICATION</b>		
Ethernet	2x 10/100BaseT (1x external PHY required)	
Serial	up to 5x UART	
CAN	up to 2x CAN 2.0B	
USB	2x USB 2.0, 1x as OTG	
I/O	up to 2x I <sup>2</sup> C, up to 3x SPI, up to 48x GPIO, up to 8x analog IN, up to 4x PWM	
SDIO	1x SDIO 3.0-ready, 4 bit 1x SDIO, 4 bit	
<b>DISPLAY</b>		
LCD Interface	1x RGB up to WXGA (1366 x 768)	
<b>OTHER</b>		
Power supply	only 3,3V +/-5%	
RTC	onboard with quartz	
Power consumption	< 1,5 W (as per I/O configuration)	
Temperature range	0 - 70°C	
Operating system	standard: Embedded Linux	
Footprint	88 Pin CASTELLATIONS, 38 LGA Pads	



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