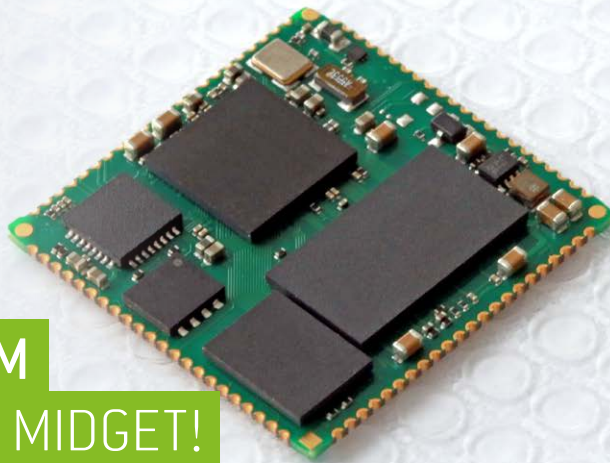




i.MX6UL SOM THE MIGHTY MIDGET!



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.

exceed'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 I²C, 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)

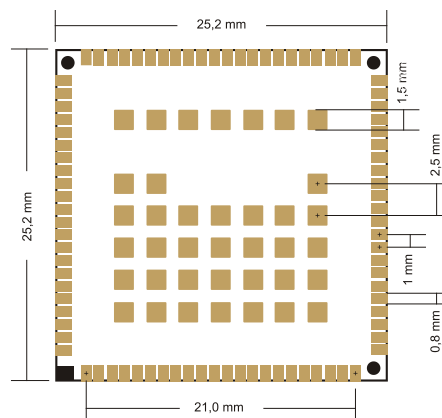
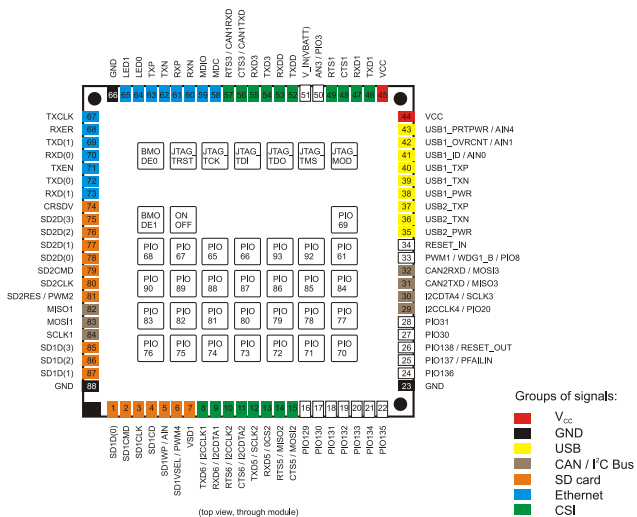
APPLICATIONS

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



TECHNICAL DATA

FUNCTION	STANDARD LAYOUT	OPTIONS
MICROPROCESSOR		
CPU	i.MX 6UltraLite 2 (Cortex A7, 528 MHz)	
MEMORY		
DDR3-RAM	256 MB	512 MB / 1 GB
NOR-Flash	1 MB	
NAND-Flash	256 MB	512 MB
COMMUNICATION		
Ethernet	2x 10/100 Mbit (1x external PHY required)	
USB	2x USB 2.0, 1x as OTG	
Serial	up to 5x UART	
CAN	up to 2x CAN 2.0B	
I/O	up to 2x I ² 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	
DISPLAY / TOUCH		
LCD Interface	1x RGB up to WXGA (1366 x 768)	
Touch	1x TouchScreenController 4/5-Wire resistive	
OTHER		
Power supply	only 3,3V +/-5%	
Power consumption	< 1,5 W (as per I/O configuration)	
Temperature range	0 .. +70°C	-40 .. +85°C
Operating system	Embedded Linux (Yocto)	
Footprint	88 Pin CASTELLATIONS, 38 LGA Pads	
RTC	onboard with quartz	



exceet
ELECTRONICS

exceet electronics GmbH
Kantstrasse 10
72663 Grossbettlingen
Germany

Phone: +49 7022 4057-0
Fax: +49 7022 4057-22
Email: info@exceet-electronics.de
Web: www.exceet-electronics.de

exceet electronics GesmbH
Wildbichler Strasse 2E
6341 Ebbs
Austria

Phone: +43 5373 43143-0
Fax: +43 5373 43143-888
Email: info@exceet-electronics.at
Web: www.exceet-electronics.at

exceet electronics AG
Riedstrasse 1
6343 Rotkreuz
Switzerland

Phone: +41 41 799 47 99
Fax: +41 41 799 47 98
Email: info@exceet-electronics.ch
Web: www.exceet-electronics.ch

We point out that all used brand names refer to the general brand, trademark or patent protection of the respective company or facility.