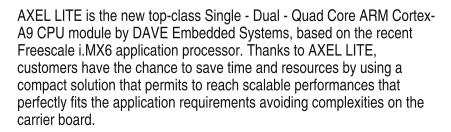


AXEL LITE

FREESCALE i.MX6 S/D/Q CPU MODULE

- Unmatched performances thanks to S/D/Q ARM Cortex A9 MPCore @ 1.2 GHz
- All memories you need on-board
- Boot from NOR for safe applications
- Enabling massive computing applications thanks to wide range DDR3 RAM memory up to 2GB (4GB OPT)
- Single 3V3 Power Supply
- Reduced carrier complexity: SDIO, dual CAN, USB, Ethernet 10/100Mbps (Gb ETH OPT), GPIOs
- Multiple video outputs available
- H264 Video encoding and decoding
- Multiple video inputs available



The use of this processor enables extensive system-level differentiation of new applications in many industry fields, where high-performance and extremely compact form factor (67,5 mm x 43 mm) are key factors. Smarter system designs are made possible, following the trends in functionalities and interfaces of the new, state-of-the-art embedded products.

AXEL LITE offers great computational power, thanks to the rich set of peripherals, the Scalable ARM Cortex-A9 together with a large set of high-speed I/Os.

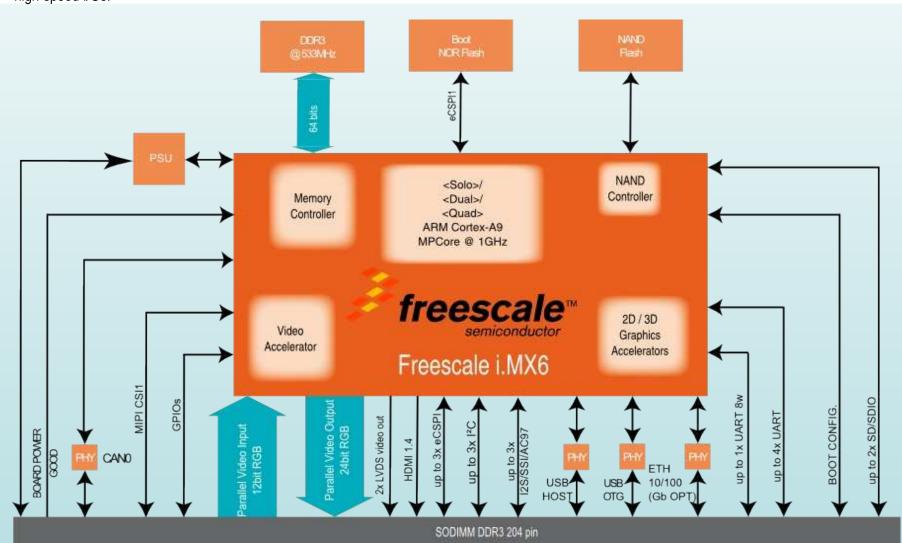


AXEL LITE enables designers to create smart products suitable for harsh mechanical and thermal environments, allowing the development of high computing and reliable solutions.

Thanks to the tight integration between the ARM Core-based processing system, designers are able to share the application through the multicore platform and/or to divide the task on different cores in order to match with specific application requirements (thanks to AMP is possible to create application where RTOS and Linux works together on different cores).

AXEL LITE is designed in order to keep full compatibility with the LITE Line CPU modules where quality and reliability are important factors.

AXEL LITE is suitable for high volume applications where the price/quality ratio is important such as Home Automation, portable solutions, Human Machine Interfaces and Industrial Automation.



CPU	Freescale i.MX6 S/D/Q ARM Cortex A9 MPCore @ 1.2 GHz
Supervisor	On-board power supply supervision
	and power sequencer
	Watchdog and RTC
Memory	
Cache	L1: 32Kbyte instruction, 32Kbyte data L2: Unified data/instruction, 1 MByte
SDRAM	Up to 2GB DDR3, x64 data bus width @ 533 MH
NOR	Bootable SPI NOR 16, 32, 64 MB
NAND	All sizes, on request
Interfaces (full-	spec models) *
LAN	Ethernet 10/100 Mbps (PHY on board)**
UART	up to 4x UART ports 4 wires up to 1x UART ports 8 wires
USB	1x 2.0 OTG port (PHY on board) 1x 2.0 Host port (PHY on board)
CAN	1x CAN (with PHY on board)
SDIO	up to 3x SDIO/MMC
Audio	up to 3x I2S / SSI / AC97
Video Output	1x RGB Parallel port 16/24 bit 1x LVDS outputs 1x HDMI H264 decoder engine up to 1080p60
Video Input	1x RGB Parallel port 12 bit 1x MIPI CSI port H264 encoder engine up to 1080p30
Debug	JTAG IEEE 1149.1 Test Access Port
Other	up to 3x I2C channels up to 3x SPI channels GPIOs with interrupt capabilities 8x8 keypad
Mechanical	
Connectors	SODIMM 204 pins
Size	67.5mm x 43mm
Temperature	Commercial (0°C / +70°C) temperature range Industrial (-40°C / +85°C) temperature range
PSU	
Input	Single 3.3V, on-board voltage regulation
Software	
Bootloader	U-Boot
Multitasking	Linux 3.x.x
Evaluation Kit	
The AXEL LITE eva	aluation kit is available in a



developement kit that includes a SOM, a carrier board and

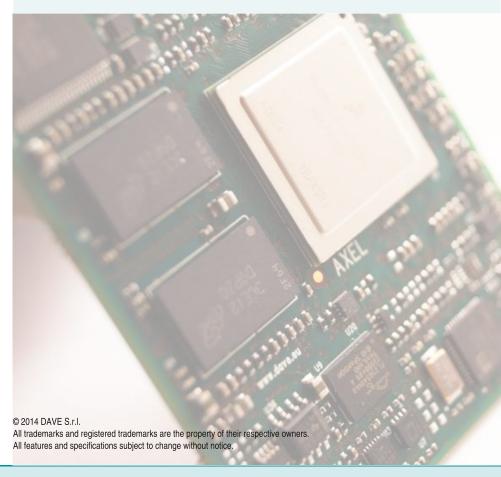
Please contact your local FAE.





Product code configurator *

Family Processor NOR flash DDR3 RAM NAND flash Temp. r.	
Family Processor NOR flash DDR3 RAM NAND flash Temp. r	ange
D: IMV6 Dual - 800M	al temp.





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^{**:} Gb ETH and 4GB DDR3 available on request