

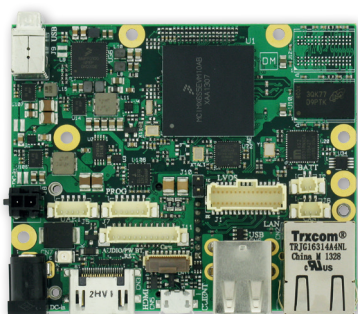
Single Board Computer



SBC-984

SBC with NXP i.MX 6 Processor

SECO's smallest, rugged, industrial SBC



HIGHLIGHTS



CPU
Single-, Dual- and Quad- Core (ARM Cortex™A9 Cores)



CONNECTIVITY
miniPCI-e slot; CAN Bus; Wi-Fi add-on module



GRAPHICS
2D/3D dedicated graphics processors



MEMORY
Up to 2GB DDR3L on-board

Available in Industrial Temperature Range



DEVELOPMENT SAMPLING **PRODUCTION**

MAIN FIELDS OF APPLICATION



Digital Signage -
Infotainment



Industrial
Automation and
Control



Point of Sales

FEATURES

Processor	NXP i.MX 6 Family, based on ARM® CORTEX-A9 processors - i.MX6S Solo - Single core up to 1GHz - i.MX6DL Dual Lite - Dual core up to 1GHz per core - i.MX6D Dual - Dual core up to 1GHz per core - i.MX6Q Quad - Quad core up to 1GHz per core	Serial Ports	1 x RS-232 serial port TTL debug UART (Tx, RX only) CAN interface internal connector
Max Cores	4	Other Interfaces	I2C touch Connector Internal connector for power and reset buttons
Memory	Up to 2GB DDR3L on-board (up to 1GB with i.MX6S)	Power Supply	+12V _{DC} ± 10% Embedded additional RTC circuitry for lowest power consumption Optional RTC Battery with lead cable and connector
Graphics	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES2.0 3D Dedicated Vector Graphics accelerator supports OpenVG™ (only i.MX6D and i.MX6Q) Supports up to 3 independent displays with i.MX6D and i.MX6Q Supports 2 independent displays with i.MX6DL and i.MX6S	Operating System	Linux
Video Interfaces	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI Interface Video Input Port / Camera connector (only with PCB rev. C or higher)	Operating Temperature*	0°C ÷ +70 °C (Commercial version) -40°C ÷ +85°C (Industrial version)
Video Resolution	LVDS up to 1920x1200 HDMI up to 1080p	Dimensions	80 x 67 mm (3.15" x 2.64")
Mass Storage	On-board eMMC drive, up to 8 GB mSATA Half-size slot (shared with miniPCI-express)	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
Networking	Gigabit Ethernet connector		
USB	3 x standard USB 2.0 Type A 1 x USB OTG on micro-AB connector Internal USB for optional WiFi module		
Audio	AC'97 Audio Codec Mic In, Line out internal pin header connector		
PCI-e	miniPCI-express slot, shared with mSATA (only PCI-e 1.1 and Gen2 are supported)		

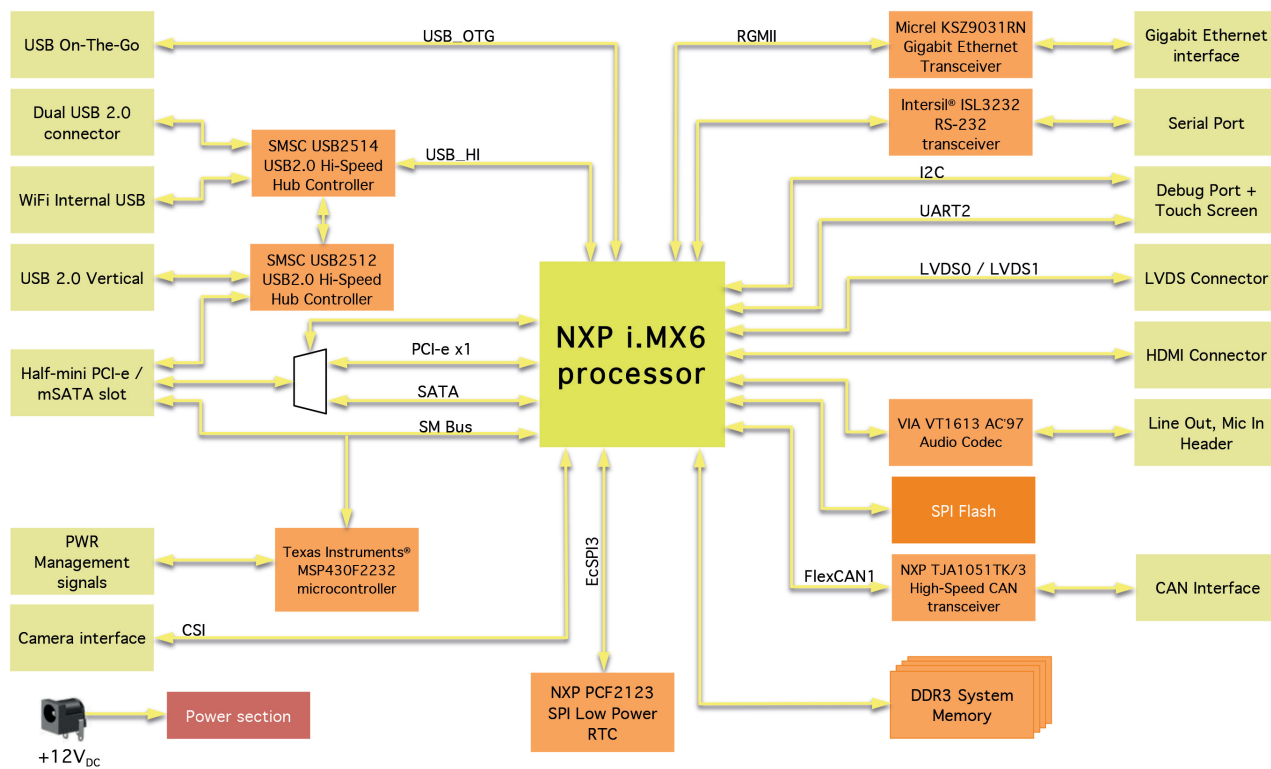


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BLOCK DIAGRAM



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