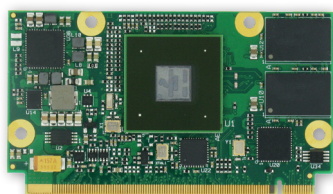




μQ7-962

μQseven® standard module with NXP i.MX 6 Processor

Optimal balance of performance and size



HIGHLIGHTS

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

CONNECTIVITY
4x USB 2.0; 2x Serial ports; CAN Bus

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



Automation



Biomedical/
Medical
devices



HMI



PDA
Electronics



Wireless
Technologies

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	Other Interfaces	I2C Bus SM Bus Power Management Signals
Max Cores	4	Power Supply	+5VDC ± 5%
Memory	Up to 2GB DDR3L on-board (up to 1GB with i.MX6S)	Operating System	Linux Yocto
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 Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Video Interfaces	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI Interface 1.4	Dimensions	40 x 70 mm (1.57" x 2.76")
Video Resolution	LVDS up to 1920x1200 HDMI up to 1080p	*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.	
Mass Storage	Up to 8 GB eMMC drive soldered on-board SD / MMC / SDIO interface 1 x External SATA Channel (only available with i.MX6D and i.MX6Q)		
Networking	Gigabit Ethernet interface		
USB	1 x USB OTG interface 4 x USB 2.0 Host interfaces		
PCI-e	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)		
Audio	I2S / AC'97 Audio interface		
Serial Ports	2 x Serial ports (TTL interface) CAN port interface		

BLOCK DIAGRAM

