

LIBERTAS

µQseven® standard module with NXP i.MX 6 Processor

Optimal balance of performance and size







GRAPHICS

2D/3D dedicated graphics processors























HMI





Biomedical/ Automation

Medical devices

Electronics

Wireless Technologies

FEATURES

PCI-e

Audio

Serial Ports

FEF	ATURES	
	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
9	Max Cores	4
H	Memory	Up to 2GB DDR3L on-board (up to 1GB with i.MX6S)
Ş	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.MX6S Supports 2 independent displays with i.MX6DL and i.MX6S
1	Video Interfaces	$1\mathrm{x}$ LVDS Dual Channel or $2\mathrm{x}$ LVDS Single Channel $18/24$ bit interface HDMI Interface 1.4
-23	Video Resolution	LVDS up to 1920x1200 HDMI up to 1080p
2	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)
4	Networking	Gigabit Ethernet interface
•<-	USB	1 x USB OTG interface 4 x USB 2.0 Host interfaces

I2S / AC'97 Audio interface 2 x Serial ports (TTL interface)

CAN port interface

1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)

	Other Interfaces	I2C Bus SM Bus Power Management Signals
	Power Supply	+5V _{DC} ± 5%
os	Operating System	Linux Yocto
		$0^{\circ}\text{C} \div +60^{\circ}\text{C}$ (Commercial version) - $40^{\circ}\text{C} \div +85^{\circ}\text{C}$ (Industrial version)
L	Dimensions	40 x 70 mm (1.57" x 2.76")

*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.



LIBERTAS

μQseven® standard module with NXP i.MX 6 Processor

BLOCK DIAGRAM



