

# Q7-928

Qseven® standard module with NXP i.MX 6 Processor

### Optimal balance of performance and power

		HIGHLIGHTS	
		CPU Single-, Dual- and Q Cores)	Quad- Core (ARM® Cortex® -A9 도 CONNECTIVITY 2x serial ports; CAN port
		GRAPHICS 2D/3D dedicated gra	aphics processors MEMORY up to 4GB DDR3L on-board
			perature Range
DE	/ELOPMENT	SAMPLING PRODUCTION	Windows Embedded Standard 7
MAIN FIELDS OF APPLICATION			
		Automotive Avionics Digital Energy Signage - Infotainment	Industrial Robotics Surveillance Transportation Automation and Control
FEATURES           NXP i.MX 6 Family, based on ARM® CORTEX-A9 processors         I.e. Audio interface			
	Processor	<ul> <li>- i.MX6S Solo - Single core up to 1GHz</li> <li>- i.MX6DL Dual Lite - Dual core up to 1GHz per core</li> <li>- i.MX6D Dual - Dual core up to 1GHz per core</li> <li>- i.MX6DP DualPlus - Dual core up to 1GHz per core</li> </ul>	Audio     AC 97 Audio Interface I2S       Serial Ports     2 x Serial ports (TTL interface) CAN port interface
•	Max Cores	- i.MX6Q Quad - Quad core up to 1GHz per core	I2C Bus       Other       Interfaces       SM Bus
	Memory	Up to 4GB DDR3L on-board (up to 2GB with i.MX6S)	Power Management Signals
	wentory	Dedicated 2D Hardware accelerator	$ \frac{Power}{Supply} +5V_{DC} \pm 5\%$
	Graphics	Dedicated 3D Hardware accelerator, supports OpenGL <sup>®</sup> ES 2.0 3D Dedicated Vector Graphics accelerator supports OpenVG <sup>™</sup> (only i.MX6D, i.MX6DP and i.MX6Q) Enhanced 2D and 3D graphics with i.MX6DP Supports up to 3 independent displays with i.MX6D, i.MX6DP and i.MX6Q	D Operating System Vindows Embedded Compact 7
			Operating O°C ÷ +60°C (Commercial version) Temperature* -40°C ÷ +85°C (Industrial version)
	••••••	Supports 2 independent displays with i.MX6DL and i.MX6S 1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24	Dimensions 70 x 70 mm (2.76" x 2.76")
Ð	Video Interfaces	bit interface HDMI Interface 1.4 Video Input Port / Camera Connector	*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-
8	Video Resolution	LVDS, up to 1920x1200 HDMI, up to 1080p	specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.
9	Mass Storage	On-board eMMC drive, up to 32 GB SD / MMC / SDIO interface 1 x µSD Card Slot on-board 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)	

SECO



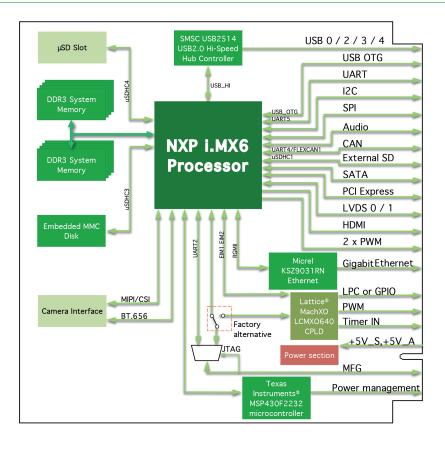
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### Qseven® standard module with NXP i.MX 6 Processor

Sold -

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#### BLOCK DIAGRAM





### **Mouser Electronics**

Authorized Distributor

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### SECO:

 Q928-N3C0-BBB0-C1
 Q928-P3C0-BBB0-I1
 Q928-R3C0-BBB0-I1
 Q928-T3C0-BBB0-C1
 Q928-V3C0-BBB0-I1

 Q928-W6D0-BBB1-C1
 Q928-V5C0-BBB0-I1
 Q928-45D0-BBB1-C1
 Q928-M1C0-BBB0-I1
 Q928-V6D0-BBB0-I1

 Q928-W5C0-BBB0-C1
 Q928-W6D0-BBB0-C1
 Q928-W6D0-BBB0-C1
 Q928-V6D0-BBB0-I1
 Q928-V6D0-BBB0-I1