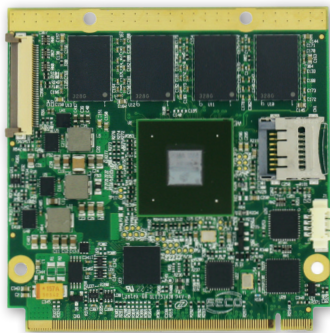




## Q7-928

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

### Optimal balance of performance and power



#### HIGHLIGHTS

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

**CONNECTIVITY**  
2x serial ports; CAN port

**GRAPHICS**  
2D/3D dedicated graphics processors

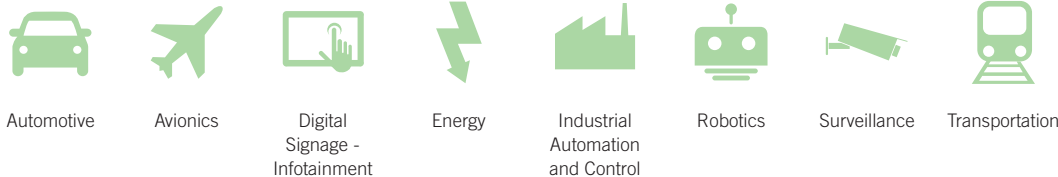
**MEMORY**  
up to 4GB DDR3L on-board

Available in Industrial Temperature Range



DEVELOPMENT | SAMPLING | PRODUCTION

#### MAIN FIELDS OF APPLICATION



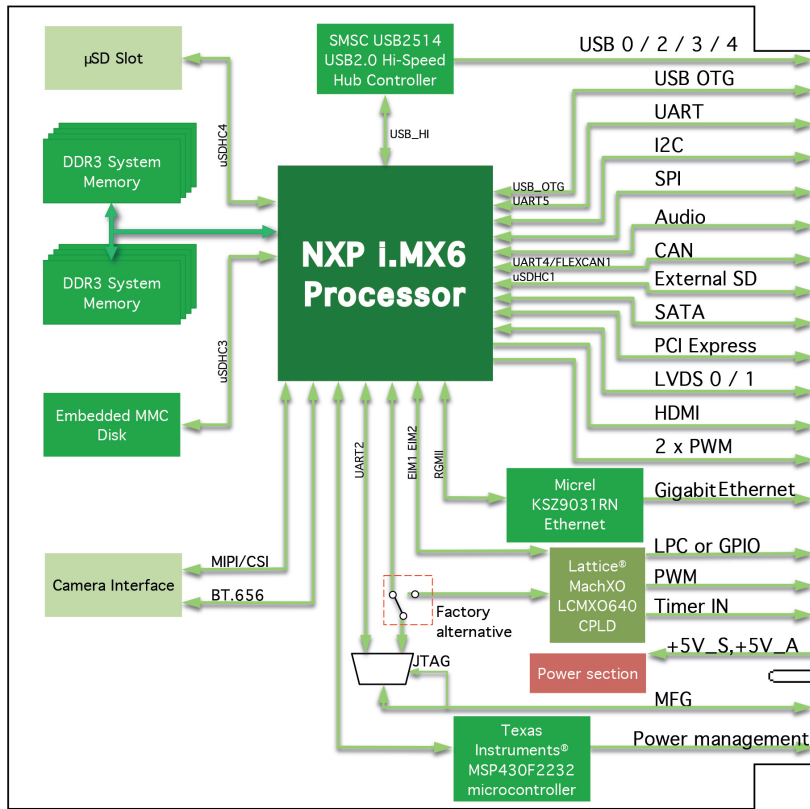
#### FEATURES

<b>Processor</b>	NXP i.MX 6 Family, based on ARM® CORTEX-A9 processors - <b>i.MX6S</b> Solo - Single core up to 1GHz - <b>i.MX6DL</b> Dual Lite - Dual core up to 1GHz per core - <b>i.MX6D</b> Dual - Dual core up to 1GHz per core - <b>i.MX6DP</b> DualPlus - Dual core up to 1GHz per core - <b>i.MX6Q</b> Quad - Quad core up to 1GHz per core	<b>Audio</b>	AC'97 Audio interface I2S
<b>Max Cores</b>	4	<b>Serial Ports</b>	2 x Serial ports (TTL interface) CAN port interface
<b>Memory</b>	Up to 4GB DDR3L on-board (up to 2GB with i.MX6S)	<b>Other Interfaces</b>	I2C Bus LPC Bus SM Bus Power Management Signals
<b>Graphics</b>	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES 2.0 3D Dedicated Vector Graphics accelerator supports OpenVG™ (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 Supports 2 independent displays with i.MX6DL and i.MX6S	<b>Power Supply</b>	+5V <sub>DC</sub> ± 5%
<b>Video Interfaces</b>	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI Interface 1.4 Video Input Port / Camera Connector	<b>Operating System</b>	Linux Yocto Microsoft® Windows Embedded Compact 7
<b>Video Resolution</b>	LVDS, up to 1920x1200 HDMI, up to 1080p	<b>Operating Temperature*</b>	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
<b>Mass Storage</b>	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)	<b>Dimensions</b>	70 x 70 mm (2.76" x 2.76")
<b>Networking</b>	Gigabit Ethernet interface	*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.	
<b>USB</b>	1 x USB OTG interface 4 x USB 2.0 Host interfaces		
<b>PCI-e</b>	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)		

# Q7-928

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

### BLOCK DIAGRAM



Information subject to change. Please visit [www.seco.com](http://www.seco.com) to find the latest version of this datasheet.

002.20

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Computer-On-Modules - COM category](#):*

*Click to view products by [Seco manufacturer](#):*

Other Similar products are found below :

[FP2-BP12](#) [CEM881PG-i7-5650U](#) [t2Express-HL-i5-4402E](#) [34099-0000-99-2](#) [38017-0000-00-0](#) [36024-0000-99-1](#) [34099-0000-99-0](#) [36026-0000-99-1](#) [36026-0000-99-0](#) [38017-0000-00-5](#) [36016-4000-19-4](#) [VSTK-6ULL-NFC](#) [Express-SL-i7-6820EQ](#) [W612M3A600SC](#) [24828-10724571-309](#) [30846-682](#) [ET970K-X3G](#) [UPC-PLUSX5Q-A20-0464](#) [UPC-PLUSX7-A20-08128](#) [UPC-PLUSX5D-A20-0232](#) [UPC-PLUSX7-A20-0864](#) [UPX-WHLCR-A20-04064](#) [cExpress-BL-i5-5350U](#) [cExpress-KL-i3-7100U](#) [Express-BD7-D1539](#) [Express-CF-i5-8400H](#) [Express-CFR-E-2254ML](#) [Express-HLE-i3-4100E](#) [Express-IBR-i7-R-3612QE](#) [LEC-BT4-4G-8G-ER](#) [nanoX-BT-E3825-2G/8G](#) [Q7-BT1-2G-8G-ER](#) [ROM-3310CS-MCA1E](#) [ROM-3310WS-MCA1E](#) [Evo M51](#) [EmNANO-a56M0-210HA](#) [EmQ-i2301-E3825](#) [EmQ-i2301-E3845](#) [EmQ-i2506](#) [G552BE](#) [CEM130-V1202B](#) [CEM700-D1508](#) [ET976-1807LV-4G](#) [ET976-1202-4G](#) [ET976-1605-4G](#) [ET976-1605LV-4G](#) [ET976-1605LV-8G](#) [ET976-1807LV-8G](#) [ET976-1202LV-E4G](#)