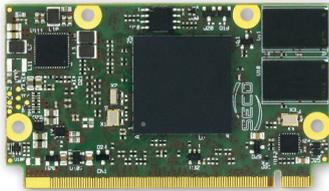




## μQ7-A75-J

μQseven® standard module with NXP i.MX 6 Processor

Small, flexible OTS module at proprietary costs



### HIGHLIGHTS

<b>CPU</b> Single and Dual Core Lite (ARM Cortex™ A9 Cores)	<b>CONNECTIVITY</b> FastEthernet; GPIOs
<b>GRAPHICS</b> 2D/3D dedicated graphics processors	<b>MEMORY</b> up to 1GB DDR3L on-board

Available in Industrial Temperature Range



### 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	On the card edge connector, many pins can be used as General Purpose I / Os or to implement some(*) of the following extra functionalities: - Additional SD interface - Up to 4 UARTs - CAN interface - Watchdog(s) - I2C interfaces - PWM outputs - SPI interface - Additional Audio interface (*) not all the combinations are allowed simultaneously <b>Power Management Signals</b>
<b>Max Cores</b>	2	
<b>Memory</b>	Up to 1GB DDR3L on-board (up to 512MB with i.MX6S Solo) 32-bit I/F	
<b>Graphics</b>	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES2.0 3D Supports 2 independent displays	
<b>Video Interfaces</b>	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI Interface	
<b>Video Resolution</b>	LVDS, resolution up to 1920x1200 HDMI, resolution up to 1080p	
<b>Mass Storage</b>	On-board eMMC drive, up to 8 GB SD / MMC / SDIO interface Internal SPI Flash for booting	
<b>Networking</b>	FastEthernet (10 / 100 Mbps) interface	
<b>USB</b>	1 x USB OTG interface 1 x USB 2.0 Host interface	
<b>PCI-e</b>	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)	
<b>Audio</b>	I2S / AC'97 Audio interface	
<b>Other Interfaces</b>		
<b>Power Supply</b>		+5V <sub>DC</sub> ± 5% Optional Low Power RTC
<b>Operating System</b>		Linux Yocto
<b>Operating Temperature*</b>		0°C ÷ +60 °C (Commercial temp.) -40°C ÷ +85°C (Industrial version)
<b>Dimensions</b>		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.

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## BLOCK DIAGRAM

