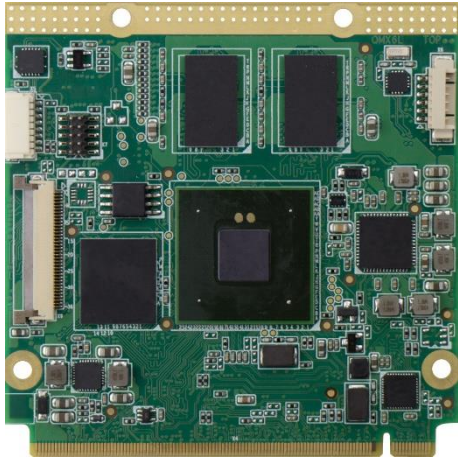


# Low-power Qseven with NXP i.MX6

## conga-QMX6

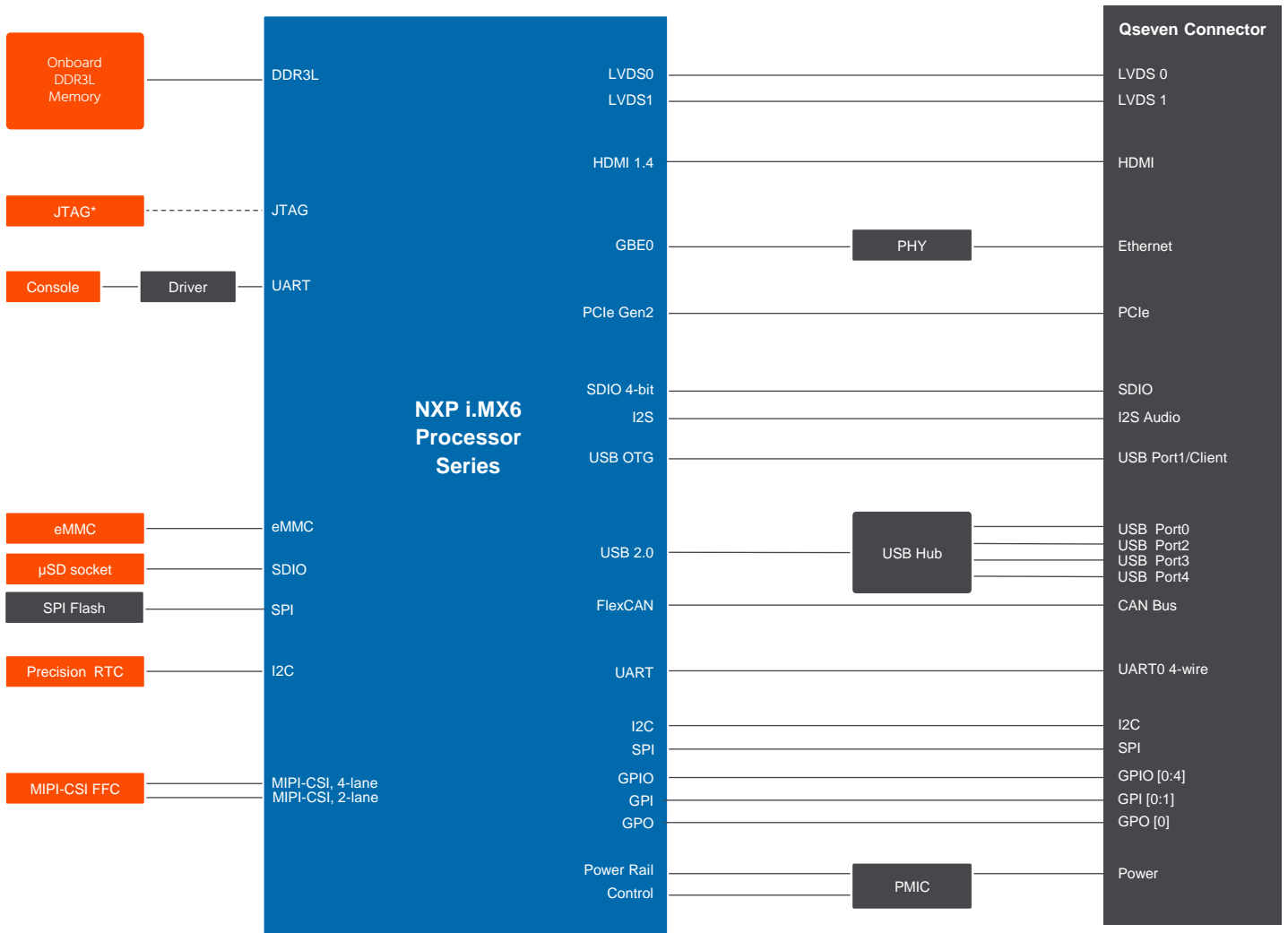


- NXP i.MX6 ARM Cortex-A9 processor series
- Multimedia Performance with HDMI & LVDS
- Camera Interface MIPI CSI-2
- Extended longevity of min. 10 years
- Temperature range up to -40°C .. +85°C



<b>Form factor</b>	Qseven   70x70mm			
<b>CPU SoC</b>	<b>NXP i.MX6 Processors</b>			
		<b>ARM Cortex-A9 (commercial)</b>	<b>ARM Cortex-A9 (industrial)</b>	<b>L2 Cache</b>
	NXP i.MX6 Solo	1 Core @ 1GHz	1 Core @ 800MHz	512kB
	NXP i.MX6 Dual Lite	2 Cores @ 1GHz	2 Cores @ 800MHz	512kB
	NXP i.MX6 Dual	2 Cores @ 1GHz	2 Cores @ 800MHz	1MB
	NXP i.MX6 Quad	4 Cores @ 1GHz	4 Cores @ 800MHz	1MB
<b>DRAM</b>	Up to 4 GByte onboard DDR3 memory   1066 MT/s			
<b>Ethernet</b>	1x Gbit Ethernet			
<b>I/O Interfaces</b>	5x USB 2.0 (shared with 1x USB OTG client)   SATA (only i.MX6 Dual/Quad)   1x SDIO   1x PCIe 2.0   I <sup>2</sup> C Bus   CAN Bus   SPI			
<b>Mass Storage</b>	eMMC up to 32 GByte   Onboard MicroSD socket			
<b>Sound</b>	1x I <sup>2</sup> S			
<b>Graphics</b>	Integrated in NXP i.MX6   Video (VPU)   2D Graphics (GPU2D) and 3D Graphics (GPU3D)   3D graphics with 4 shaders up to 200MT/s dual stream 1080p/720p decoder/encoder   OpenGL   OpenCL   OpenVG 1.1			
<b>Video Interfaces</b>	HDMI v1.4 support supported by Qseven specification. 2x LVDS (2x 24 bit)   1x LVDS (1x 24 bit) up to WUXGA resolution   1920x1200 pixel and HD1080   Supports 18bit and 24bit dual channel up to WUXGA 1920x1200			
<b>Features</b>	Watchdog Timer   JTAG debug interface   MIPI CSI-2 camera interface on flat foil connector   High Precision Real Time Clock			
<b>Security</b>	High Assurance Boot support   TrustZone®   RNG			
<b>Boot Loader</b>	U-Boot boot loader			
<b>Operating Systems</b>	Linux   Android			
<b>Power Consumption</b>	Typical application 3-5W @ 5V			
<b>Temperature Range</b>	Operating Temperature Range:		0 to +60°C commercial grade -40 to +85°C industrial grade	
	Storage Temperature Range:		-40 to +85°C	
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond.		Storage: 5 - 95% r. H. non condensing	
<b>Size</b>	70mm x 70 mm			

# conga-QMX6 | Block Diagram



\* Assembly Option