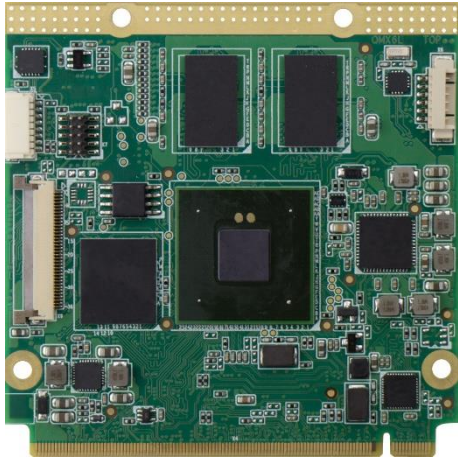


Low-power Qseven with NXP i.MX6

conga-QMX6

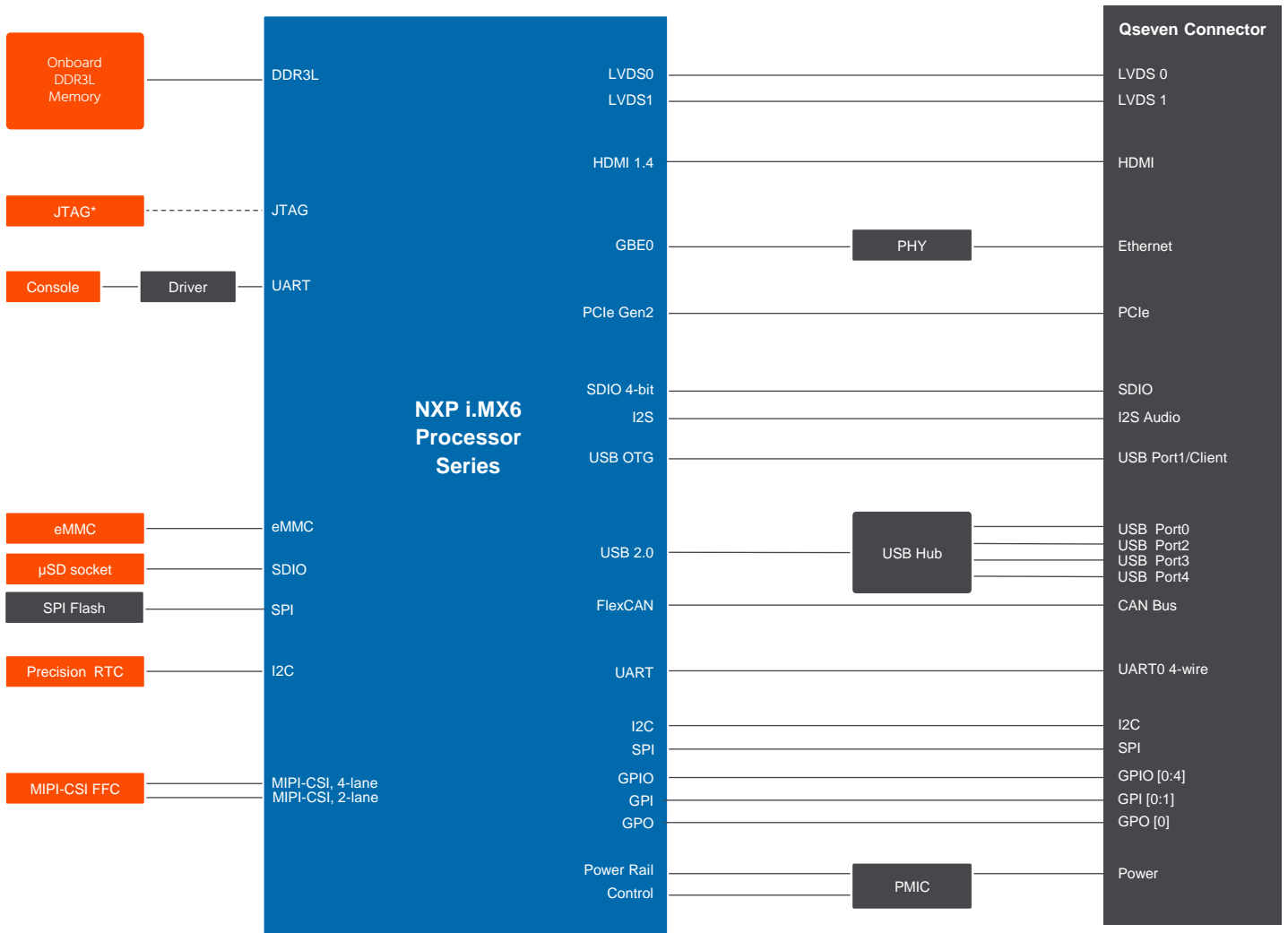


- NXP i.MX6 ARM Cortex-A9 processor series
- Multimedia Performance with HDMI & LVDS
- Camera Interface MIPI CSI-2
- Extended longevity of min. 10 years
- Temperature range up to -40°C .. +85°C



Form factor	Qseven 70x70mm			
CPU SoC	NXP i.MX6 Processors			
		ARM Cortex-A9 (commercial)	ARM Cortex-A9 (industrial)	L2 Cache
	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
DRAM	Up to 4 GByte onboard DDR3 memory 1066 MT/s			
Ethernet	1x Gbit Ethernet			
I/O Interfaces	5x USB 2.0 (shared with 1x USB OTG client) SATA (only i.MX6 Dual/Quad) 1x SDIO 1x PCIe 2.0 I ² C Bus CAN Bus SPI			
Mass Storage	eMMC up to 32 GByte Onboard MicroSD socket			
Sound	1x I ² S			
Graphics	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			
Video Interfaces	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			
Features	Watchdog Timer JTAG debug interface MIPI CSI-2 camera interface on flat foil connector High Precision Real Time Clock			
Security	High Assurance Boot support TrustZone® RNG			
Boot Loader	U-Boot boot loader			
Operating Systems	Linux Android			
Power Consumption	Typical application 3-5W @ 5V			
Temperature Range	Operating Temperature Range:		0 to +60°C commercial grade -40 to +85°C industrial grade	
	Storage Temperature Range:		-40 to +85°C	
Humidity	Operating: 10 - 90% r. H. non cond.		Storage: 5 - 95% r. H. non condensing	
Size	70mm x 70 mm			

conga-QMX6 | Block Diagram



* Assembly Option