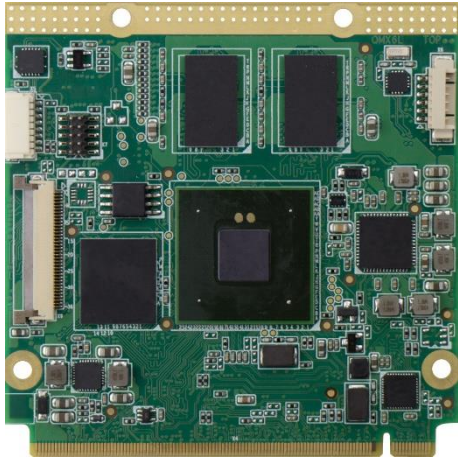


Low-power Qseven with NXP i.MX6

conga-QMX6

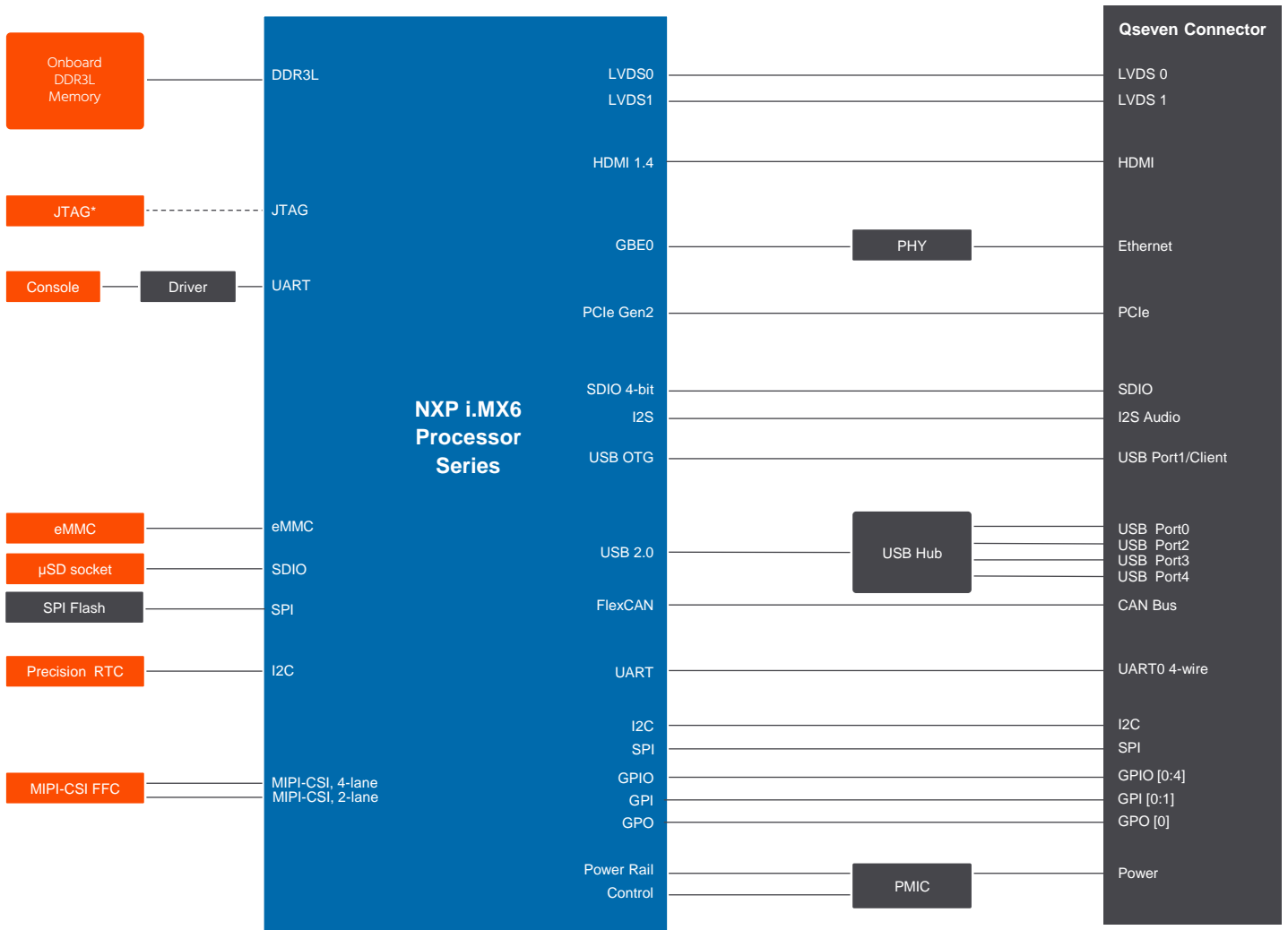


- NXP i.MX6 ARM Cortex-A9 processor series
- Multimedia Performance with HDMI & LVDS
- Camera Interface MIPI CSI-2
- Extended longevity of min. 10 years
- Temperature range up to -40°C .. +85°C



| | | | | |
|--------------------------|--|-----------------------------------|--|-----------------|
| 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