ENGICAM
EMBEDDED SOLUTIONS

i.CoreRQS MX6S/DL/D/Q

Based on NXP™ i.MX 6 processor unleashes the industry's first truly scalable multicore platform that includes single, dual, and quad core families based on the ARM Cortex™-A9 architecture. With high-performance multimedia processing, i.MX 6 series is purpose-built for the new era of smart device.

HIGHLIGHTS

- **Freescale™** i.MX6S/D/Q
- **GRAPHICS** 2 x LVDS 18/24 bit channel eDP 1.4, 1 x HDMI/DVI
- **MEMORY and STORAGE** Up to 2 GB 64bit DDR-1066, eMMC 4 GB

APPLICATIONS

Automotive | Biomedical/Medical devices | Transportation | Digital Signage Infotainment | Robotics

FEATURES

	CPU	• Freescale™ i.MX6S/D/Q – Cortex A9 up to 1.2 GHz • 32 KB I-data L1 cache x core • 32 KB D-data L1 cache x core • 1 MB unified I/D L2 cache • NEON MPE coprocessor • Vector floating point coprocessor
	CORES	Up to 4
	MEMORY	Up to 2 GB 64bit DDR3-1066
	GRAPHICS	• GPU 3D (Vivante GC2000, 200Mtri/s 1000Mpxl/s, OpenGL® ES 3.0 and Halti, CL EP) • GPU 2D(Vector Graphics, Vivante GC355) • GPU 2D(Composition, Vivante GC320, 600Mpxl/s, BLIT0Mpxl/s, OpenGL® ES 3.0 and Halti, CL EP) • GPU 2D(Vector Graphics,Vivante GC355, 300Mpxl/s, OpenVG™ 1.1) • GPU 2D(Composition, Vivante GC320, 600Mpxl/s, BLIT)
	VIDEO INTERFACES	• HDMI up to 4K @ 60Hz • Optional eDP up to 4K @ 60Hz • LVDS Single Channel up to Full HD @ 60Hz via ePD bridge
	VIDEO PROCESSING	• Video Decode (1080p 60 h.264) • Video Encode (1080p30 H.264 BP/ Dual 720p encode)
	NETWORKING	1 x Gb Ethernet interface

	AUDIO	I2S i/f
	USB	• 5 x USB 2.0 • 1 x USB OTG
	MASS STORAGE	• eMMC 4 GB
	PERIPHERAL INTERFACES	PCIe 2.0, SATA, AC97/I2S, debug UART, I2C, SPI, CAN Bus, Watchdog Trigger, Buttons (Power, Lid, Sleep), Suspend to RAM (S3 mode), Wake, Battery Low Alarm, Thermal Control, Fan Control
	MINI SLOT	• 1 x SD/MMC Cards
	OPERATING SYSTEM	• Linux • Windows
	OPERATING TEMPERATURE*	Industrial (-40°C to 110°C Tj*)
	DIMENSIONS	40 x 70 mm