

The Engicam SmarCore iQ6 module is a powerful IoT platform that delivers industrial-grade features with advanced camera, AI, and advanced compute performance at low-power, based on SMARC® standard. SmarCore iQ6 is based on Qualcomm Dragonwing™ IQ6 Series for real-time and high-performance applications.



FEATURES



	CPU	Qualcomm Dragonwing IQ-615
	CORES	2x Kryo Gold @ 1.9 GHz 6x Kryo Silver @ 1.6 GHz
	MEMORY	Up to 8GB (@ 3110 MT/s) LPDDR4X
	AI & GRAPHICS	Adreno GPU - OpenGL® ES 3.2 - Vulkan® - DirectX 12 - OpenCL 2.0
	VIDEO INTERFACES	2x MIPI-CSI 2,4-lane - MIPI-DSI/LVDS/HDMI - DP/eDP
	VIDEO PROCESSING	- Up to 4K60 H.265/H.264/VP9/ VP8/ MPEG-2 decoder - Up to 1080p60 H.265/H.264/ VP8 encoder
	AUDIO	3x I²S interfaces
	NETWORKING	1x 1Gb Ethernet interface

HIGHLIGHTS

- Standard SMARC 2.2
- Powerful Qualcomm Dragonwing™ IQ6 Series processor with GPU and VPU
- Suitable for IoT and advanced multimedia applications

APPLICATIONS



	USB	1x USB 3.0 - Up to 4x USB 2.0
	MASS STORAGE	Starting from 8GB eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, SPI, I²C, GPIOs
	PCIe	1x PCIe Gen2 1-lane
	OPERATING SYSTEM	Linux Yocto
	POWER SUPPLY	+5V DC
	DIMENSIONS	Standard SMARC short size module
	OPERATING TEMPERATURE*	Industrial qualified

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

BLOCK DIAGRAM

