

The new Engicam module developed on Qseven® standard, based on Intel® Elkhart Lake™ processor series, is built on new levels of CPU with high-performance multimedia processing with integrated IoT features, for real-time applications, security and functional safety.



HIGHLIGHTS















- **Intel** Elkhart Lake
- **GRAPHICS** 2 x LVDS 18/24 bit channel, 1 x HDMI, eDP 1.3
- **MEMORY and STORAGE** Starting from 2GB LPDDR4, eMMC, 2 x SATA

APPLICATIONS



FEATURES



 CPU	<ul style="list-style-type: none"> • Intel Atom X6211E Dual Core @ 1.2 GHz, 1.5MB L2 cache, 6W • Intel Atom X6413E Quad Core @ 1.5 GHz, 1.5MB L2 cache, 9W • Intel Atom X6425E Quad Core @ 1.8 GHz, 1.5MB L2 cache, 12W • Intel Atom X6212RE Dual Core @ 1.2 GHz, 1.5MB L2 cache, 6W • Intel Atom X6414RE Quad Core @ 1.5 GHz, 1.5MB L2 cache, 9W • Intel Atom X6425RE Quad Core @ 1.9 GHz, 1.5MB L2 cache, 12W • Intel Atom X6427FE Quad Core @ 1.9 GHz, 1.5MB L2 cache, 12W • Intel Atom X6200FE Dual Core @ 1.0 GHz, 1.5MB L2 cache, 4.5W 	 AUDIO	<ul style="list-style-type: none"> • I2S i/f • HDA
 CORES	Up to 4	 USB	<ul style="list-style-type: none"> • 8 x USB 2.0 • 2 x USB 3.0 (optional)
 MEMORY	Starting from 2GB LPDDR4	 MASS STORAGE	<ul style="list-style-type: none"> • eMMC • 2 x SATA
 GRAPHICS	<ul style="list-style-type: none"> • Intel® 11th generation (Gen 11) LP graphics controller. • DirectX 12.1 compliant, OpenGL ES 3.1/3.0/2.0/1.1, OpenGL 4.5 supported, OpenCL™ 1.2 	 PERIPHERAL INTERFACES	PCIe 3.0, UART, I2C, SPI, CAN Bus, Watchdog Trigger, LPC, Thermal Control, Fan Control, SDIO
 VIDEO INTERFACES	<ul style="list-style-type: none"> • HDMI up 4K@60Hz • eDP to LVDS Dual channel up to 1920x1080 @ 60Hz via eDP bridge • DP up to 4096x2160@60Hz • eDP up to 4096x2160@60Hz 	 OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux • Windows
 VIDEO PROCESSING	<ul style="list-style-type: none"> • HEVC/H.265, H.264, VP9, VP8, WMV9/VC1, MPEG-2, VC-1, JPEG/MJPEG dec • HEVC/H.265, H.264, VP9, JPEG/MJPEG enc 	 NETWORKING	<ul style="list-style-type: none"> • 1 x Gb Ethernet interface
 DIMENSIONS		70 x 70 mm	
 OPERATING TEMPERATURE*		Industrial (-40°C to 110°C Tj*)	

* 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

