

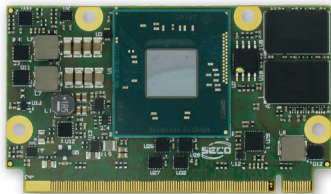


KUMA

µQseven® Rel. 2.0 module with Intel® Atom™ E3800 and Celeron® (formerly Bay Trail) Processors

Smallest x86 standard module at proprietary costs

HIGHLIGHTS



CPU
Intel® Atom™ E3800 and Celeron® families



CONNECTIVITY
4x USB 2.0; 1x USB 3.0; 3x PCI-e x1; LPC Bus



GRAPHICS
Integrated Intel® HD Graphics 4000 Series controller



MEMORY
up to 4GB Single Channel DDR3L memory



MAIN FIELDS OF APPLICATION



Biomedical/
Medical
devices



Industrial
Automation
and Control



PDA
Electronics



Robotics



Surveillance



Transportation

FEATURES

 Processor	Intel® Celeron® N2807 , Dual Core @1.58GHz, 1MB Cache, 4.3W TDP Intel® Atom™ E3815 , Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ E3825 , Dual Core @1.33GHz, 1MB Cache, 6W TDP		 Other Interfaces	I2C Bus LPC Bus SM Bus Thermal / FAN management Power Management Signals
 Max Cores	2		 Power Supply	+5V _{DC} ± 5%
 Max Thread	2		 Operating System	Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 Microsoft® Windows Embedded Compact 7 Linux Yocto
 Memory	Soldered on-board DDR3L memory E3825, E3815: up to 4GB Single-Channel DDR3L @ 1066MHz N2807: up to 4GB Single-Channel DDR3L @ 1333MHz		 Operating Temperature*	0°C ÷ +60°C
 Graphics	Integrated Intel® HD Graphics 4000 series controller Dual independent display support HW decoding of H.264, MPEG2, MVC, VC1, VP8, MJPEG formats HW encoding of H.264, MPEG2 and MVC formats		 Dimensions	40 x 70 mm (1.57" x 2.76")
 Video Interfaces	Multimode Display Port interface 18 / 24 bit dual channel LVDS interface		*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
 Video Resolution	DP++ (HDMI compatible): Up to 2560x1600@60Hz LVDS interface: Up to 1920x1200@60Hz			
 Mass Storage	2 x external SATA channels SD interface Optional eMMC drive soldered on-board			
 Networking	Gigabit Ethernet interface			
 USB	1 x USB 3.0 Host port 4 x USB 2.0 Host ports (one shared with USB 3.0 interface)			
 PCI-e	3 x PCI-e x1 lanes Gen2			
 Audio	HD Audio interface			
 Serial Ports	1 x Serial port (TTL interface, Tx / Rx only)			

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BLOCK DIAGRAM

