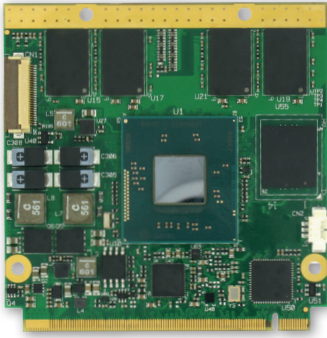




SOM-Q7-BT-2

Qseven® Rel. 2.0 module with Intel® Atom® E3800 and Celeron® (Codename: Bay Trail) Processors

Mobile-oriented with eMMC and Camera Interface



HIGHLIGHTS



CPU
Intel® Atom® E3800 and Celeron® families



CONNECTIVITY
6x USB 2.0; 1x USB 3.0; 3x PCI-e x1



GRAPHICS
Integrated Intel® HD Graphics 4000 Series controller



MEMORY
up to 8GB Dual-Channel DDR3L 1333MHz

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Industrial
Automation



Smart Devices



Digital Signage

FEATURES

Processor	Intel® Atom® E3845, Quad Core @1.91GHz, 2MB Cache, 10W TDP		
	Intel® Atom® E3827, Dual Core @1.75GHz, 1MB Cache, 8W TDP		
Max Cores	4		
	4		
Max Thread	4		
	4		
Memory	Soldered on-board DDR3L memory		
	E3845, E3827, J1900, N2930: up to 8GB Dual-Channel DDR3L 1333MHz		
Graphics	E3826: up to 8GB Dual-Channel DDR3L 1066MHz		
	N2807: up to 4GB Single-Channel DDR3L 1333MHz		
Video Interfaces	E3825, E3815: up to 4GB Single-Channel DDR3L 1066MHz		
	Integrated Intel® HD Graphics 4000 series controller (not for E3805)		
Video Resolution	Dual independent display support		
	HW decoding of H.264, MPEG2, MVC, VCI, VP8, MJPEG formats		
Mass Storage	HW encoding of H.264, MPEG2 and MVC formats		
	2 x external SATA channels		
Networking	SD interface		
	Optional eMMC Drive soldered on-board		
USB	Gigabit Ethernet interface		
	1 x USB 3.0 Host port		
PCI-e	6 x USB 2.0 Host ports (one shared with USB 3.0 interface)		
	3 x PCI-e x1 lanes		
Audio	HD Audio interface		
	1 x Serial port (TTL interface)		
Serial Ports	I2C Bus		
	LPC Bus		
Other Interfaces	SM Bus		
	Thermal / FAN management		
Power Supply	SPI interface		
	Power Management Signals		
Video Resolution	+5V _{DC} ± 5%		
	HDMI®: Up to 1920x1080p@60Hz		
Mass Storage	Display Port, eDP: Up to 2560x1600@60Hz		
	Optional LVDS interface: Up to 1920x1200@60Hz		

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FEATURES

OS	Operating System	Microsoft® Windows 7 (32 / 64 bit) Microsoft® Windows 8.1 (32 / 64 bit) Microsoft® Windows 10 (32 / 64 bit) Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 (32 / 64 bit) Microsoft® Windows Embedded Compact 7 Linux (32 / 64 bit) Yocto	Dimensions 70 x 70 mm (2.76" x 2.76")	*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.
Temp	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)		

BLOCK DIAGRAM

