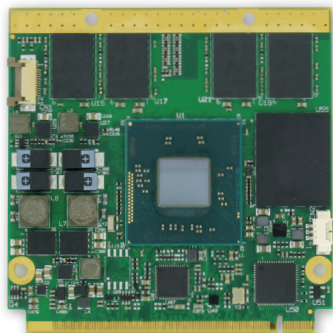




Q7-974

Qseven® standard module with the Intel® Atom™ E3800 and Celeron® families (formerly Bay Trail) SoC

x86 performance on a low-power module



HIGHLIGHTS

CPU
Intel® Atom™ E3800 and Celeron® families of System-on-Chip

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

GRAPHICS
Integrated Intel® HD Graphics controller

MEMORY
up to 8GB Dual-Channel DDR3L 1333MHz

Available in Industrial Temperature Range



DEVELOPMENT SAMPLING PRODUCTION

MAIN FIELDS OF APPLICATION



Biomedical/
Medical devices



HMI



Industrial
Automation and
Control



Measuring
Instruments

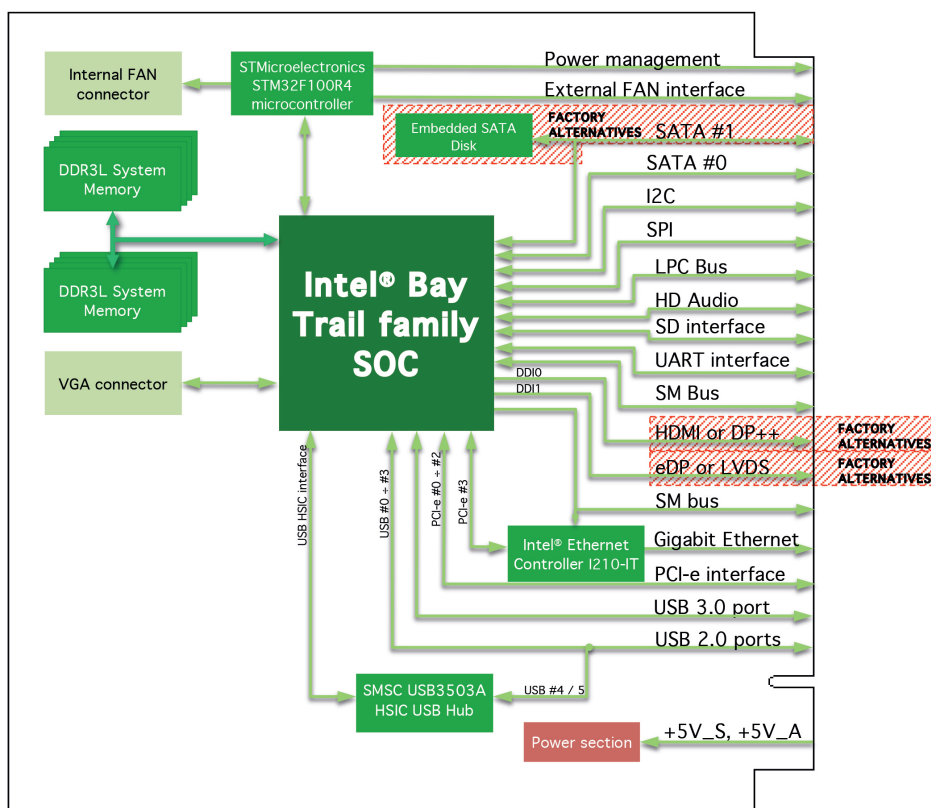
FEATURES

Processor	Intel® Atom™ E3845, Quad Core @1.91GHz, 2MB Cache, 10W TDP	PCI-e	3 x PCI-e x1 lanes
	Intel® Atom™ E3827, Dual Core @1.75GHz, 1MB Cache, 8W TDP	Audio	HD Audio interface
Max Cores	Intel® Atom™ E3826, Dual Core @1.46GHz, 1MB Cache, 7W TDP	Serial Ports	1 x Serial port (TTL interface)
	Intel® Atom™ E3825, Dual Core @1.33GHz, 1MB Cache, 6W TDP	Other Interfaces	I2C Bus LPC Bus SM Bus Thermal / FAN management SPI interface Power Management Signals
Max Thread	Intel® Atom™ E3815, Single Core @1.46GHz, 512KB Cache, 5W TDP	Power Supply	+5Vdc ± 5%
	Intel® Celeron® J1900, Quad Core @2.0GHz, 2MB Cache, 10W TDP	Operating System	Microsoft® Windows 7 (32 / 64 bit) Microsoft® Windows 8 (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
Memory	Intel® Celeron® N2930, Quad Core @1.83GHz, 2MB Cache, 7.5W TDP	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
	Intel® Celeron® N2807, Dual Core @1.58GHz, 1MB Cache, 4.3W TDP	Dimensions	70 x 70 mm (2.76" x 2.76")
Graphics	Soldered on-board DDR3L memory E3845, E3827, J1900, N2930: up to 8GB Dual-Channel DDR3L @ 1333MHz E3826: up to 8GB Dual-Channel DDR3L @ 1066MHz N2807: up to 4GB Single-Channel DDR3L @ 1333MHz E3825, E3815: up to 4GB Single-Channel DDR3L @ 1066MHz	*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 Interfaces	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		
Video Resolution	HDMI or Multimode Display Port interface Embedded Display Port or 18 / 24 bit dual channel LVDS interface Additional VGA interface (optional external adapter is required)		
	HDMI: Up to 1920x1080p@60Hz Display Port, eDP, CRT: Up to 2560x1600@60Hz Optional LVDS interface: Up to 1920x1200@60Hz		
Mass Storage	Up to 2 x external SATA channels SD interface Optional SATA Flash Drive soldered on-board		
Networking	Gigabit Ethernet interface		
USB	1 x USB 3.0 Host port 6 x USB 2.0 Host ports (one shared with USB 3.0 interface)		

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BLOCK DIAGRAM



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SECO:

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