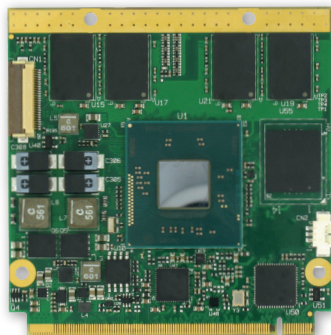




Q7-A36

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

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



Windows 8.1

Windows 10

Windows IoT



DEVELOPMENT SAMPLING PRODUCTION

MAIN FIELDS OF APPLICATION



HMI



Industrial
Automation
and Control



In-vehicle
infotainment
systems



Portable
Devices

FEATURES

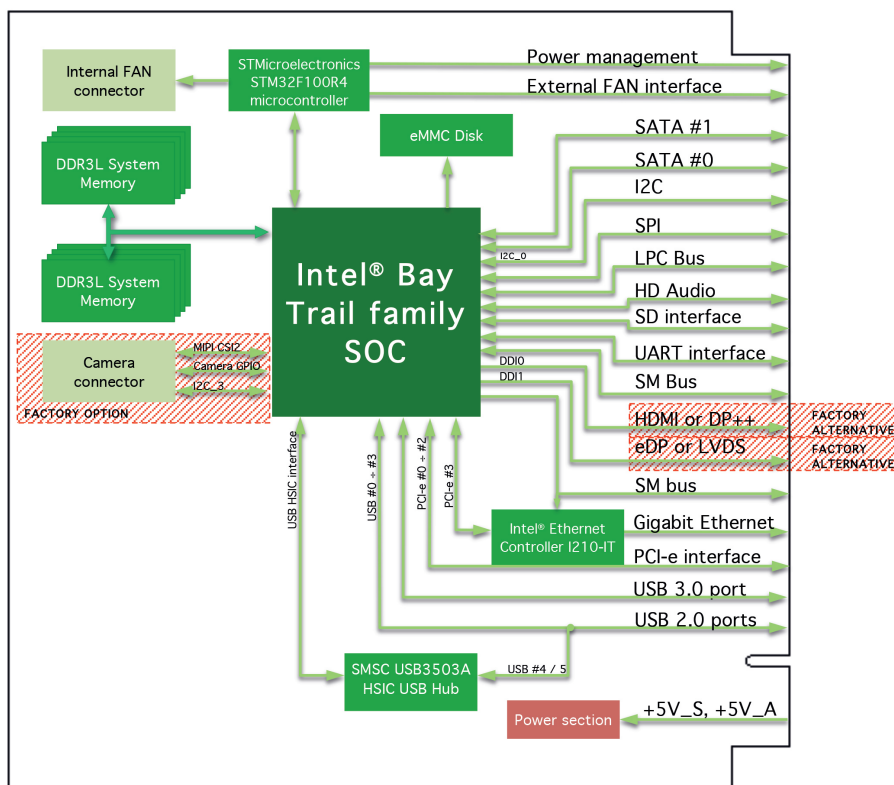
	Intel® Atom™ E3845, Quad Core @1.91GHz, 2MB Cache, 10W TDP Intel® Atom™ E3827, Dual Core @1.75GHz, 1MB Cache, 8W TDP Intel® Atom™ E3826, Dual Core @1.46GHz, 1MB Cache, 7W TDP Intel® Atom™ E3825, Dual Core @1.33GHz, 1MB Cache, 6W TDP Intel® Atom™ E3815, Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ E3805, Dual Core @1.33GHz, 1MB Cache, 3W TDP Intel® Celeron® J1900, Quad Core @2.0GHz, 2MB Cache, 10W TDP Intel® Celeron® N2930, Quad Core @1.83GHz, 2MB Cache, 7.5W TDP Intel® Celeron® N2807, Dual Core @1.58GHz, 1MB Cache, 4.3W TDP		3 x PCI-e x1 lanes
			HD Audio interface
			1 x Serial port (TTL interface)
			I2C Bus LPC Bus SM Bus Thermal / FAN management SPI interface Power Management Signals
			+5V _{DC} ± 5%
			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
			0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
			70 x 70 mm (2.76" x 2.76")
	Intel® Atom™ E3845, Quad Core @1.91GHz, 2MB Cache, 10W TDP Intel® Atom™ E3827, Dual Core @1.75GHz, 1MB Cache, 8W TDP Intel® Atom™ E3826, Dual Core @1.46GHz, 1MB Cache, 7W TDP Intel® Atom™ E3825, Dual Core @1.33GHz, 1MB Cache, 6W TDP Intel® Atom™ E3815, Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ E3805, Dual Core @1.33GHz, 1MB Cache, 3W TDP Intel® Celeron® J1900, Quad Core @2.0GHz, 2MB Cache, 10W TDP Intel® Celeron® N2930, Quad Core @1.83GHz, 2MB Cache, 7.5W TDP Intel® Celeron® N2807, Dual Core @1.58GHz, 1MB Cache, 4.3W TDP		
	4		
	4		
	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		
	Integrated Intel® HD Graphics 4000 series controller (not for E3805) Dual independent display support HW decoding of H.264, MPEG2, MVC, VC1, VP8, MJPEG formats HW encoding of H.264, MPEG2 and MVC formats		
	HDMI or Multimode Display Port interface Embedded Display Port or 18 / 24 bit dual channel LVDS interface Optional Camera interface		
	HDMI: Up to 1920x1080p@60Hz Display Port, eDP: Up to 2560x1600@60Hz Optional LVDS interface: Up to 1920x1200@60Hz		
	2 x external SATA channels SD interface Optional eMMC Drive soldered on-board		
	Gigabit Ethernet interface		
	1 x USB 3.0 Host port 6 x USB 2.0 Host ports (one shared with USB 3.0 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.

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BLOCK DIAGRAM



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

SECO:

[QA36-7640-2100-I0](#)