

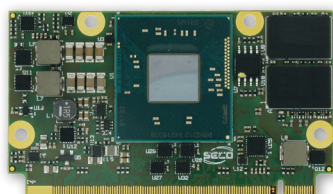


μQ7-A76-J

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

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



DEVELOPMENT SAMPLING **PRODUCTION**

MAIN FIELDS OF APPLICATION



Biomedical/
Medical
devices



Industrial
Automation
and Control



Internet of
Things



PDA
Electronics



Robotics



Surveillance



Transportation

FEATURES

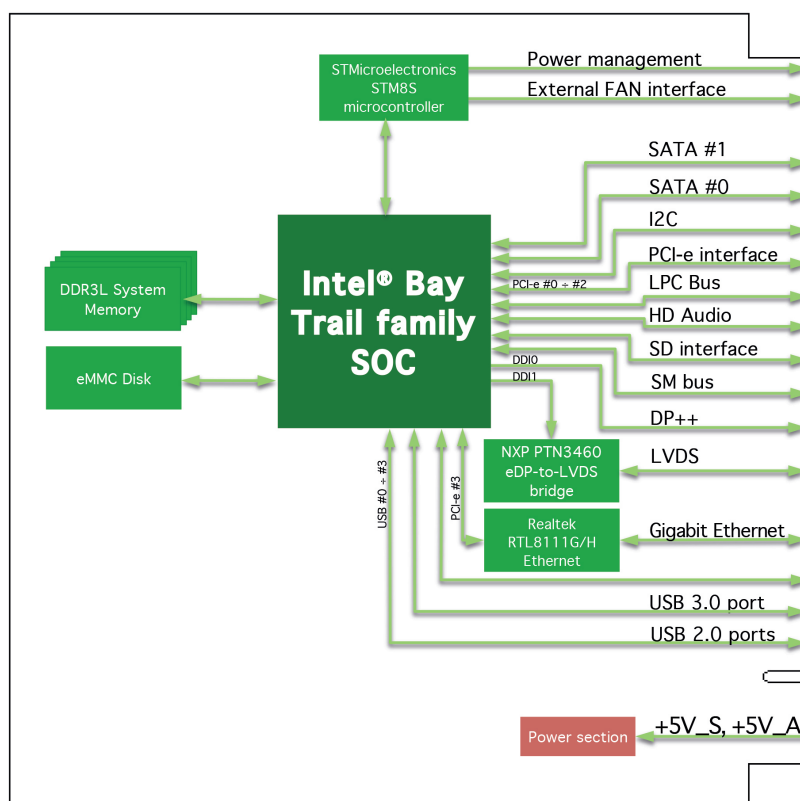
Processor	Intel® Celeron® N2807 , Dual Core @1.58GHz, 1MB Cache, 4.3W TDP Intel® Atom™ E3815 , Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ E3825 , Dual Core @1.33GHz, 1MB Cache, 6W TDP	
Max Cores	2	
Max Thread	2	
Memory	Soldered on-board DDR3L memory E3825, E3815: up to 4GB Single-Channel DDR3L @ 1066MHz N2807: up to 4GB Single-Channel DDR3L @ 1333MHz	
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	
Video Interfaces	Multimode Display Port interface 18 / 24 bit dual channel LVDS interface	
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)	
Other Interfaces	I2C Bus LPC Bus SM Bus Thermal / FAN management Power Management Signals	
Power Supply	+5V _{DC} ± 5%	
Operating System	Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 Microsoft® Windows Embedded Standard 8 Microsoft® Windows Embedded Compact 7 Linux Yocto	
Operating Temperature*	0°C ÷ +60°C	
Dimensions	40 x 70 mm (1.57" 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.

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BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
QA76-8320-0000-C0	μQ7 w / Bay Trail-M N2807 @1.58 GHz DC - RAM DDR3L 2GB - eMMC 8GB - Comm. Temp
QA76-3220-0000-C0	μQ7 w/Bay Trail-I E3815 @1.46 GHz SC - RAM DDR3L 1GB - eMMC 8GB - Comm. Temp
QA76-4320-0000-C0	μQ7 w / Bay Trail-I E3825 @1.33 GHz DC - RAM DDR3L 2GB - eMMC 8GB - Comm. Temp

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
QA42-0000-1111-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - DisplayPort - 2nd Ethernet Port - LVDS - Debug Port
QA30-Q7XDK-0000	Qseven® Cross Platform Development Kit 2.0
QA42-Q7XSK-1100	Q7 - Cross Platform Starter Kit 2.0 - DP++ - LVDS, 7" touch display included
QA76-DISS-1-PK	Heat Spreader (PASSIVE)
QA76-DISS-2-PK	Heat Sink (PASSIVE)
ASK-425	Adapter for mounting a microQ7 module on standard Qseven® carrier boards



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