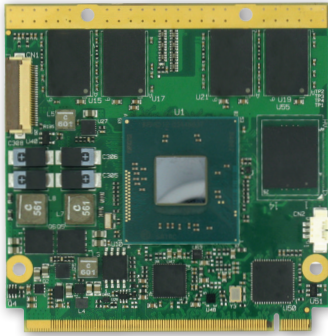




ASTERION

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

Mobile-oriented with eMMC and Camera Interface



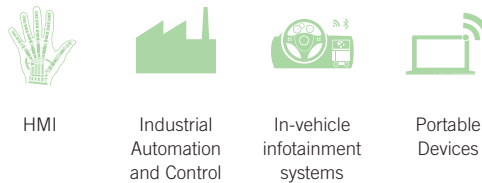
HIGHLIGHTS

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



FEATURES

Processor 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	PCI-e 3 x PCI-e x1 lanes
Max Cores 4	Audio HD Audio interface
Max Thread 4	Serial Ports 1 x Serial port (TTL interface)
Memory 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	Other Interfaces I2C Bus LPC Bus SM Bus Thermal / FAN management SPI interface Power Management Signals
Graphics 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	Power Supply +5V _{DC} ± 5%
Video Interfaces HDMI or Multimode Display Port interface Embedded Display Port or 18 / 24 bit dual channel LVDS interface Optional Camera interface	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
Video Resolution HDMI: Up to 1920x1080p@60Hz Display Port, eDP: Up to 2560x1600@60Hz Optional LVDS interface: Up to 1920x1200@60Hz	Operating Temperature* 0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Mass Storage 2 x external SATA channels SD interface Optional eMMC Drive soldered on-board	Dimensions 70 x 70 mm (2.76" x 2.76")
Networking Gigabit Ethernet 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.
USB 1 x USB 3.0 Host port 6 x USB 2.0 Host ports (one shared with USB 3.0 interface)	

ASTERION

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

BLOCK DIAGRAM

