



## 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



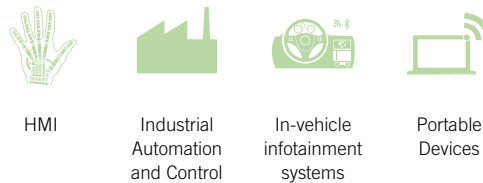
#### HIGHLIGHTS

<b>CPU</b> Intel® Atom™ E3800 and Celeron® families	<b>CONNECTIVITY</b> 6x USB 2.0; 1x USB 3.0; 3x PCI-e x1
<b>GRAPHICS</b> Integrated Intel® HD Graphics 4000 Series controller	<b>MEMORY</b> up to 8GB Dual-Channel DDR3L 1333MHz

Available in Industrial Temperature Range



#### MAIN FIELDS OF APPLICATION



#### FEATURES

<b>Processor</b>	Intel® Atom™ <b>E3845</b> , Quad Core @1.91GHz, 2MB Cache, 10W TDP Intel® Atom™ <b>E3827</b> , Dual Core @1.75GHz, 1MB Cache, 8W TDP Intel® Atom™ <b>E3826</b> , Dual Core @1.46GHz, 1MB Cache, 7W TDP Intel® Atom™ <b>E3825</b> , Dual Core @1.33GHz, 1MB Cache, 6W TDP Intel® Atom™ <b>E3815</b> , Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ <b>E3805</b> , Dual Core @ 1.33GHz, 1MB Cache, 3W TDP Intel® Celeron® <b>J1900</b> , Quad Core @2.0GHz, 2MB Cache, 10W TDP Intel® Celeron® <b>N2930</b> , Quad Core @1.83GHz, 2MB Cache, 7.5W TDP Intel® Celeron® <b>N2807</b> , Dual Core @1.58GHz, 1MB Cache, 4.3W TDP	<b>PCI-e</b>	3 x PCI-e x1 lanes
<b>Max Cores</b>	4	<b>Audio</b>	HD Audio interface
<b>Max Thread</b>	4	<b>Serial Ports</b>	1 x Serial port (TTL interface)
<b>Memory</b>	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	<b>Other Interfaces</b>	I2C Bus LPC Bus SM Bus Thermal / FAN management SPI interface Power Management Signals
<b>Graphics</b>	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	<b>Power Supply</b>	+5V <sub>DC</sub> ± 5%
<b>Video Interfaces</b>	HDMI or Multimode Display Port interface Embedded Display Port or 18 / 24 bit dual channel LVDS interface <b>Optional Camera interface</b>	<b>Operating System</b>	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
<b>Video Resolution</b>	HDMI: Up to 1920x1080p@60Hz Display Port, eDP: Up to 2560x1600@60Hz Optional LVDS interface: Up to 1920x1200@60Hz	<b>Operating Temperature*</b>	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
<b>Mass Storage</b>	2 x external SATA channels SD interface <b>Optional eMMC Drive soldered on-board</b>	<b>Dimensions</b>	70 x 70 mm (2.76" x 2.76")
<b>Networking</b>	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.	
<b>USB</b>	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

