

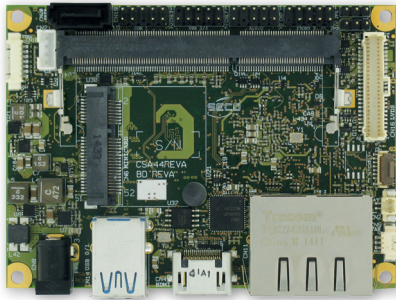
Single Board Computer



SBC-A44-pITX

Pico-ITX SBC with Intel® Atom™ E3800 family (formerly Bay Trail) SoCs and ECC DDR3L memory

Limitless Embedded applications



HIGHLIGHTS



CPU

Intel® Atom™ E3800 family of System-on-Chip



CONNECTIVITY

2x GbE; Half miniPCI-e slot; 8x GPIOs



GRAPHICS

Integrated Intel® HD Graphics controller



MEMORY

Up to 8GB DDR3L ECC SO-DIMM



Available in Industrial Temperature Range



Windows 8.1

Windows 10

Windows IoT



MAIN FIELDS OF APPLICATION



Industrial
Automation and
Control



Info Kiosks



Internet of
Things



Surveillance



Telco



Transportation

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	Other Interfaces	8 x GPIO FAN connector Switch / LED Front Header I2C connector with INT and RST# signals
Max Cores	4	Serial Ports	2 x optional RS-232 / RS-422 / RS-485 Serial ports on internal pin Header
Max Thread	4	Power Supply	12V _{DC} ± 5% RTC Battery with lead cable and connector
Memory	Up to 8GB on DDR3L-1333 ECC SO-DIMM Slot (DDR3L-1333 with E3845 and E3827, DDR3L-1067 the others) Integrated Intel® HD Graphics 4000 series controller (not for E3805)	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
Graphics	Dual independent display support HW decoding of H.264, MPEG2, MVC, VC1, VP8, MJPEG formats HW encoding of H.264, MPEG2 and MVC formats	Operating Temperature*	0°C ÷ +60°C (Commercial temperature) -40° ÷ +85°C (Industrial temperature)
Video Interfaces	HDMI connector Single / Dual Channel 18- / 24-bit LVDS connector	Dimensions	72 x 100 mm (2.83" x 3.93")
Video Resolution	HDMI, resolution up to 1080p @ 60Hz LVDS, resolution up to 1920 x 1200	*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.	
Mass Storage	Optional eMMC drive on-board 1 x standard SATA connector mini mSATA interface on miniCard slot (shared with miniPCI-e) microSD Card slot		
Networking	Dual Gigabit Ethernet connector		
USB	2 x USB 3.0 Host ports on Dual Type-A socket 2 x USB 2.0 Host ports on internal pin header 1 x USB 2.0 Host port on miniPCI-e slot		
PCI-e	Half miniPCI-e slot (shared with mSATA)		
Audio	Optional HD Audio Codec Cirrus Logic CS4207 Mic In, Line out internal pin header connector		



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Pico-ITX SBC with Intel® Atom™ E3800 family (formerly Bay Trail) SoCs and ECC DDR3L memory

BLOCK DIAGRAM

