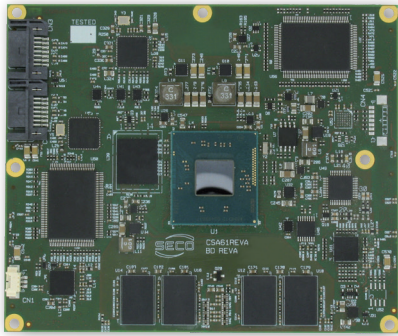




ETX-A61

ETX® Module with the Intel® Atom® E3800 and Celeron® families (formerly Bay Trail) SoC

Update your legacy design



HIGHLIGHTS

CPU Intel® Atom™ E3800 and Celeron® families	CONNECTIVITY PCI Bus 2.3; ISA Bus; LPT; PS/2
GRAPHICS Integrated Intel® HD graphics 4000 Series controller Dual independent display support	MEMORY DDR3L memory soldered onboard



MAIN FIELDS OF APPLICATION



Automation



Automotive



Avionics



Biomedical/
Medical devices



HMI



Industrial
Automation
and Control



Robotics



Surveillance

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® 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	Audio HD Audio codec, Realtek ALC262
Max Cores 4	Serial Ports 2 x Serial ports (TX / RX / RTS / CTS signals, TTL interface)
Max Thread 4	Other Interfaces PCI Bus rel. 2.3 compliant ISA Bus LPT interface shared with Floppy Drive interface PS / 2 mouse and keyboard interface I2C Bus SM Bus Watch Dog timer Power Management Signals
Memory DDR3L memory soldered on-board 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	Power Supply +5V _{DC} ± 5% and + 5V _{SB} (optional)
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	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 Standard 8 (32 / 64 bit) Microsoft® Windows Embedded Compact 7 Linux (32 / 64 bit) Yocto
Video Interfaces VGA standard analog video interface 18 / 24 bit single / dual channel LVDS interface (VESA and JEIDA color mapping compatible)	Operating Temperature* 0°C ÷ +60°C (Commercial version)
Video Resolution CRT Interface: Up to 2560 x 1600 @ 60Hz LVDS interface: Up to 1920 x 1200 @ 60Hz	Dimensions 114 x 95 mm (4.49" x 3.74")
Mass Storage Optional eMMC drive soldered on-board 2 x external SATA or 2 x PATA or 1 x PATA + 1 x SATA channels (factory options) µSD Card Slot	*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.
Networking Gigabit Ethernet controller, makes available a 10 / 100Mbps Ethernet interface	
USB 4 x USB 2.0 Host ports	

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BLOCK DIAGRAM

