

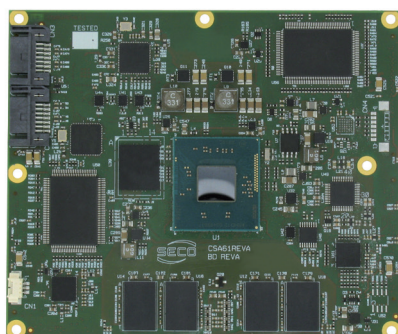


ETX-A61

ETX[®] Module with the Intel[®] Atom[™] E3800 and Celeron[®] families ("Bay Trail") SoC

Update your legacy design

Moon Island platform -
Intel IoT gateway solution



HIGHLIGHTS

- Intel[®] Atom[™] E3800 and Celeron[®] families ("Bay Trail")
- Rugged design (DDR3L memory soldered on-board, exclusively ceramic capacitors, high quality AEC-Q200 grade inductors)
- State-of-the-art replacement solution for legacy projects in ETX form factor with dual channel memory
- On-board eMMC for storage and operating system booting support

ETX[®] 3.0
Long Term Support

intel IoT Solutions Alliance



Windows 8.1

Windows 10

Windows IoT



Windows Embedded Standard 8

Windows Embedded Compact 7



yocto PROJECT

MAIN FIELDS OF APPLICATION



Robotics



Automotive



Surveillance



Biomedical/
Medical devices



Industrial
Automation and
Control



Automation



HMI



Avionics

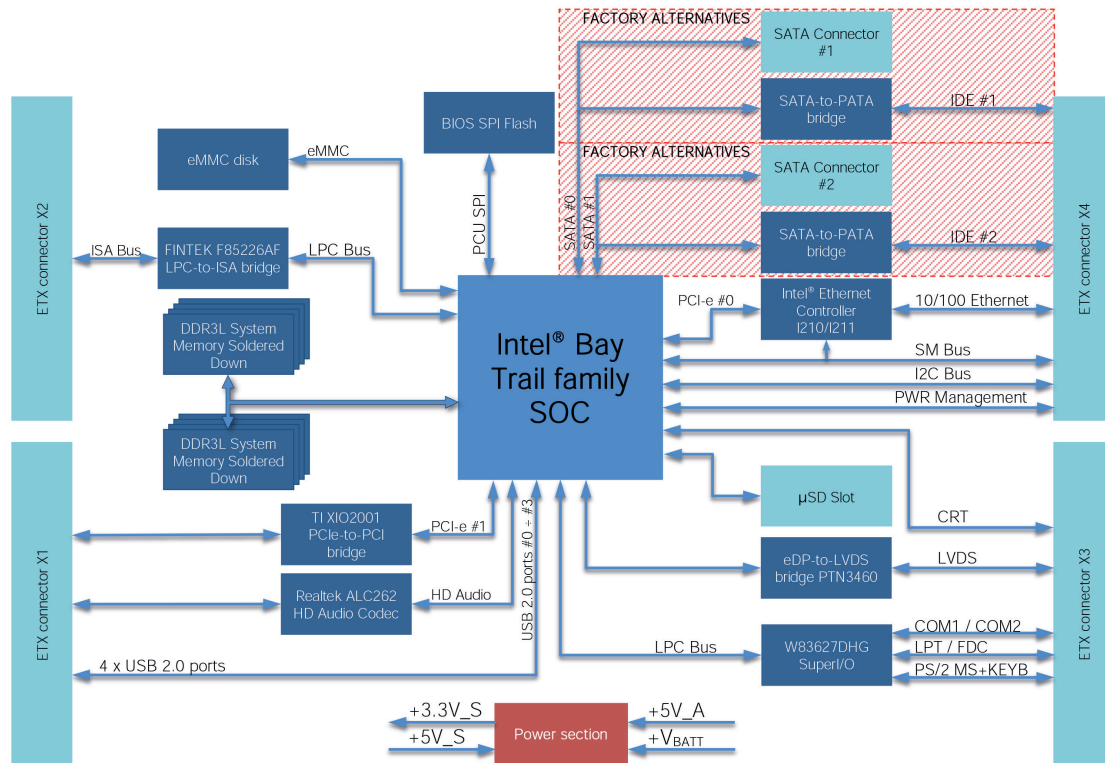
FEATURES

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
		Serial Ports	2 x Serial ports (TX / RX / RTS / CTS signals, TTL interface)
Max Cores	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
Max Thread	4		
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 the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.	
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



ORDERING INFORMATION

PN*	DESCRIPTION
TA61-2400-2110-C0	Bay Trail-D J1900 @2.00 GHz QC - RAM DDR3L 2GB - SATA 0 converted to PATA - SATA 1 on connector - PCI clock free runnig - Comm. Temp
TA61-3100-2110-C0	Bay Trail-I E3815 @1.46 GHz SC - RAM DDR3L 1GB - SATA 0 converted to PATA - SATA 1 on connector - PCI clock free runnig - Comm. Temp
TA61-3130-2110-C0	Bay Trail-I E3815 @1.46 GHz SC - RAM DDR3L 1GB - eMMC 8GB - SATA 0 converted to PATA - SATA 1 on connector - PCI clock free runnig - Comm. Temp
TA61-5400-1110-C0	Bay Trail-I E3826 @1.46 GHz DC - RAM DDR3L 2GB - SATA 0 converted to PATA - SATA 1 converted to PATA - PCI clock free runnig - Comm. Temp
TA61-5430-2110-C0	Bay Trail-I E3826 @1.46 GHz DC - RAM DDR3L 2GB - eMMC 8GB - SATA 0 converted to PATA - SATA 1 on connector - PCI clock free runnig - Comm. Temp
TA61-8100-2110-C0	Bay Trail-M N2807 @1.58 GHz DC - RAM DDR3L 1GB - SATA 0 converted to PATA - SATA 1 on connector - PCI clock free runnig - Comm. Temp

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

ACCESSORIES

PN	DESCRIPTION
TA61-DISS-1-PK	Heat Spreader (PASSIVE)



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