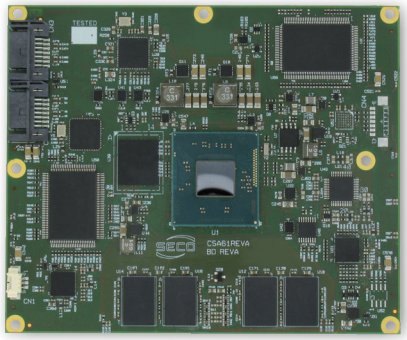
ETX®

SOM-ETX-BT

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

Medical | Transportation | Safety & Surveillance | Industrial Automation

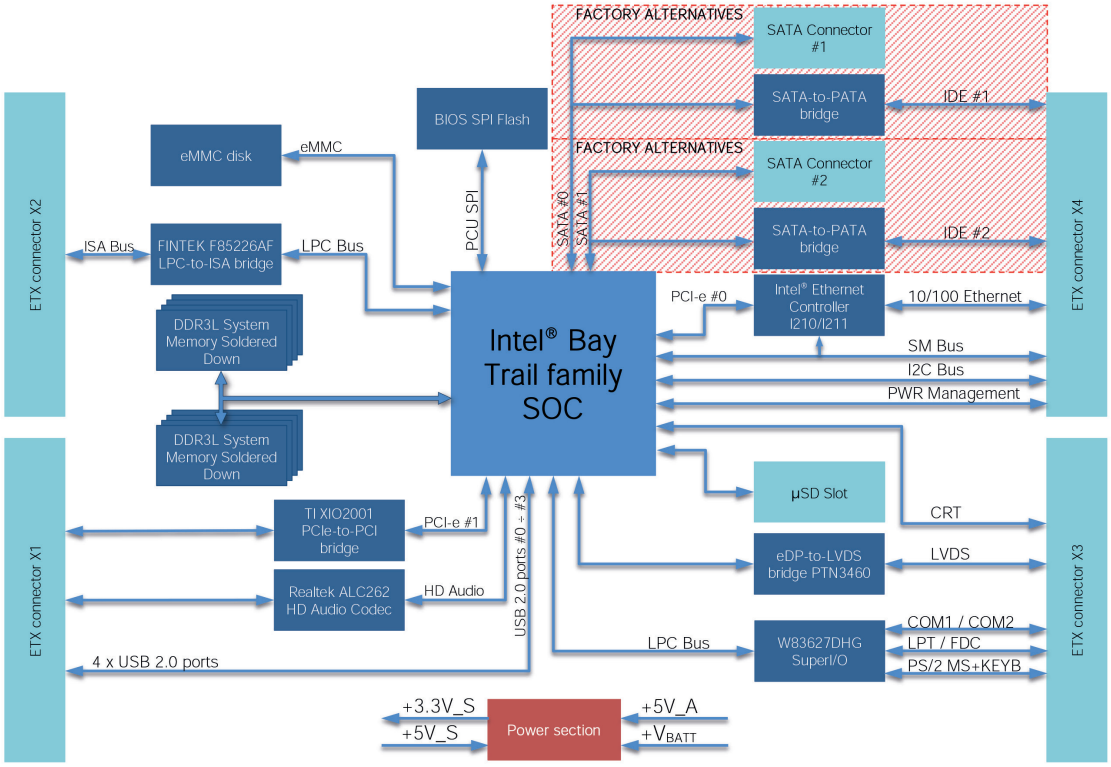
FEATURES

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
Max Cores	4
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
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
Video Interfaces	VGA standard analog video interface 18 / 24 bit single / dual channel LVDS interface (VESA and JEIDA color mapping compatible)
Video Resolution	CRT Interface: Up to 2560 x 1600 @ 60Hz LVDS interface: Up to 1920 x 1200 @ 60Hz
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
Networking	Gigabit Ethernet controller, makes available a 10 / 100Mbps Ethernet interface

USB	4 x USB 2.0 Host ports
Audio	HD Audio codec, Realtek ALC262
Serial Ports	2 x Serial ports (TX / RX / RTS / CTS signals, TTL interface)
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
Power Supply	$+5V_{DC}$ ± 5% and + $5V_{SB}$ (optional)
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
Operating Temperature*	0°C ÷ +60°C (Commercial version)
Dimensions	114 x 95 mm (4.49" x 3.74")

*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.

BLOCK DIAGRAM



Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DEVICE MANAGER

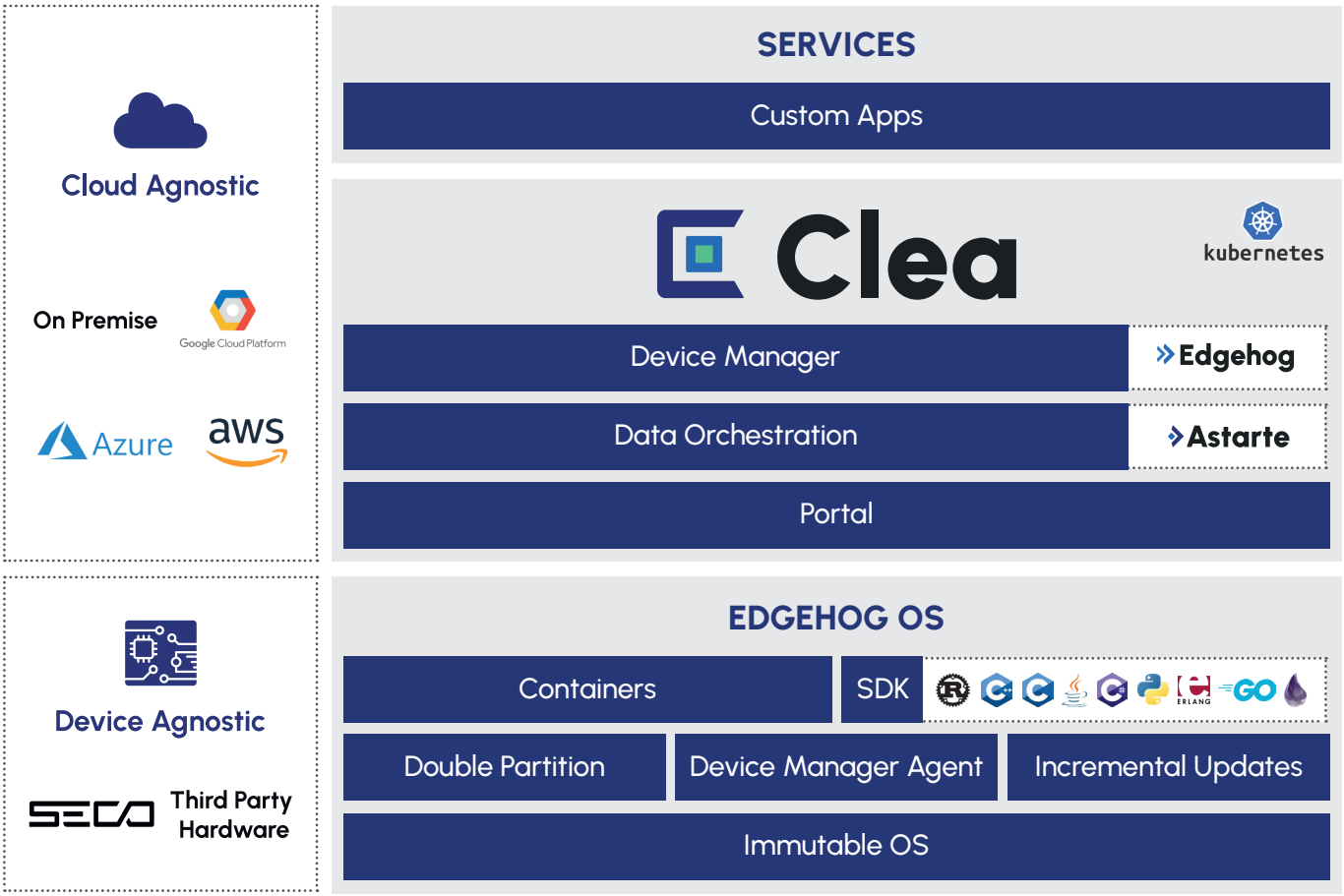
Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



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