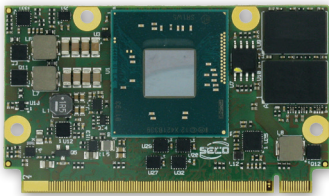# µQseven®

SOM-uQ7-BT
µQseven® Rel. 2.0 module with Intel® Atom® E3800 and Celeron® (Codename: Bay Trail) Processors

Smallest x86 standard module at proprietary costs

HIGHLIGHTS

CPU
Intel® Atom® E3800 and Celeron® families

CONNECTIVITY
4x USB 2.0; 1x USB 3.0; 3x PCI-e x1; LPC Bus

GRAPHICS
Integrated Intel® HD Graphics 4000 Series controller

MEMORY
up to 4GB Single Channel DDR3L memory

MAIN FIELDS OF APPLICATION

Medical   Transportation   Safety & Surveillance   Industrial Automation   Smart Devices
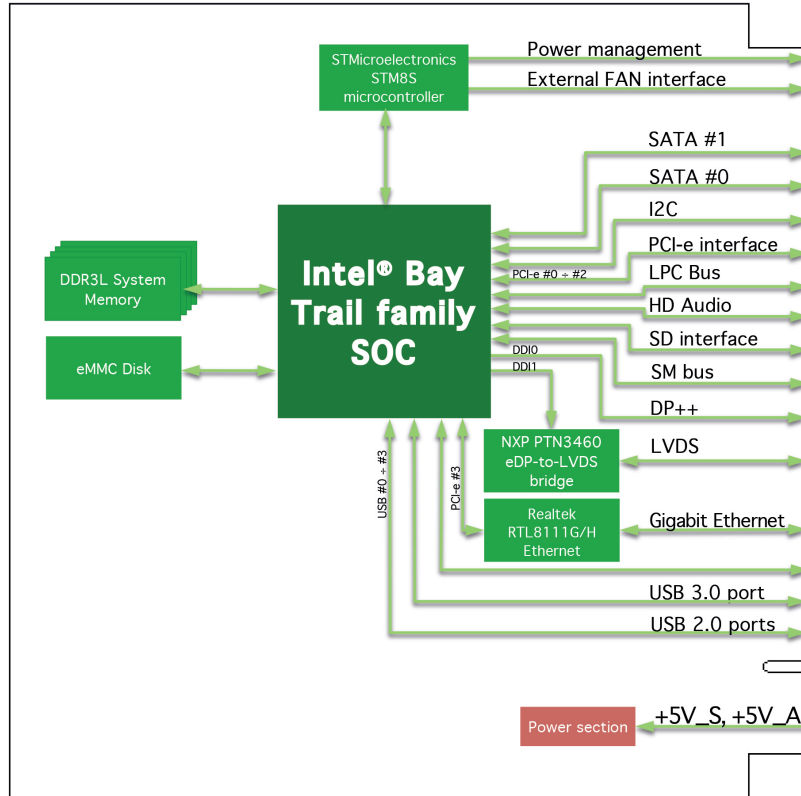
FEATURES

Processor	Intel® Celeron® **N2807**, Dual Core @1.58GHz, 1MB Cache, 4.3W TDP Intel® Atom® **E3815**, Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom® **E3825**, Dual Core @1.33GHz, 1MB Cache, 6W TDP	Serial Ports	1 x Serial port (TTL interface, Tx / Rx only)
Max Cores	2	Other Interfaces	I2C Bus LPC Bus SM Bus Thermal / FAN management Power Management Signals
Max Thread	2	Power Supply	$+5V_{DC} \pm 5\%$
Memory	Soldered on-board DDR3L memory E3825, E3815: up to 4GB Single-Channel DDR3L @ 1066MHz N2807: up to 4GB Single-Channel DDR3L @ 1333MHz	Operating System	Microsoft® Windows 7 Microsoft® Windows 8.1 Microsoft® Windows 10 Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 Microsoft® Windows Embedded Compact 7 Linux Yocto
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	Multimode Display Port interface 18 / 24 bit dual channel LVDS interface	Operating Temperature*	0°C ÷ +60°C
Video Resolution	DP++ (HDMI® compatible): Up to 2560x1600@60Hz LVDS interface: Up to 1920x1200@60Hz	Dimensions	40 x 70 mm (1.57" x 2.76")
Mass Storage	2 x external SATA channels SD interface Optional eMMC drive soldered on-board		
Networking	Gigabit Ethernet interface		
USB	1 x USB 3.0 Host port 4 x USB 2.0 Host ports (one shared with USB 3.0 interface)		
PCI-e	3 x PCI-e x1 lanes Gen2		
Audio	HD Audio 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.

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

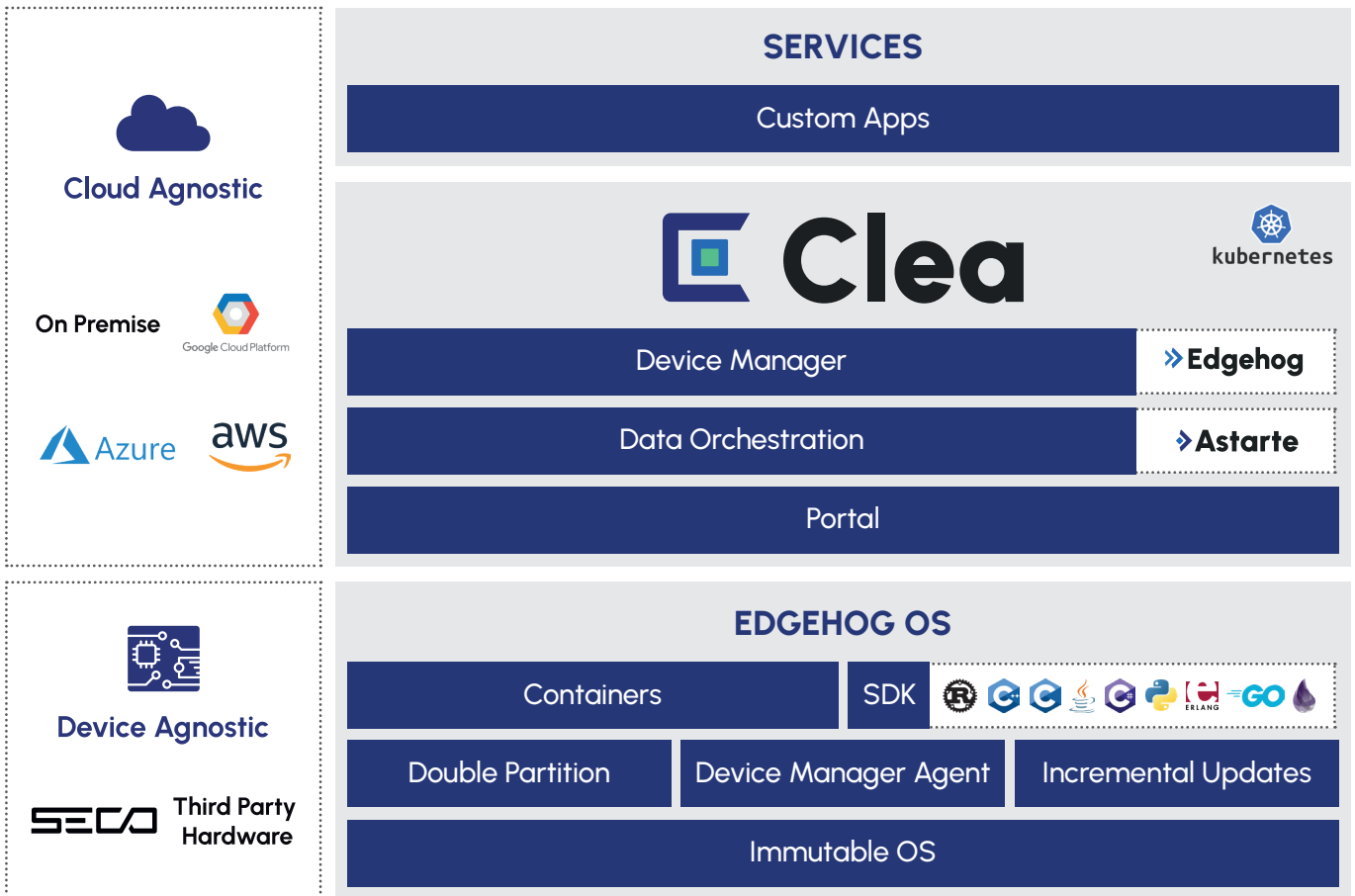Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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.

Cloud Agnostic

On Premise
Google Cloud Platform

Azure
aws

Device Agnostic

SECO Third Party Hardware

SERVICES

Custom Apps

Clea

kubernetes

Device Manager | ≫ Edgehog

Data Orchestration | ⟩ Astarte

Portal

EDGEHOG OS

Containers | SDK

Double Partition | Device Manager Agent | Incremental Updates

Immutable OS

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EDGEHOG OS

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SECO

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