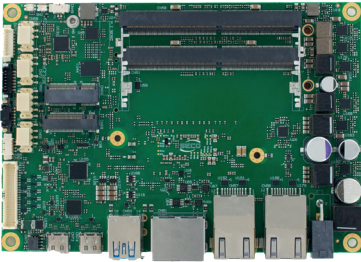




## SBC-3.5-TGL-UP3

3.5" SBC with the 11th Gen Intel® Core™ and Intel® Celeron® (Codename: Tiger Lake UP3) Processors

### 11th Gen Intel® Core™ Edge Compute with power-efficient compute and graphics



#### HIGHLIGHTS

<b>CPU</b> 11th Gen Intel® Core™ processors and Intel® Celeron® SoCs	<b>CONNECTIVITY</b> 2x SuperSpeed USB 10Gbps; 2x SuperSpeed USB 20Gbps; 2x USB 2.0; 4x PCIe Gen3; 2x 2.5GbE
<b>GRAPHICS</b> Intel® Iris® Xe Architecture with up to 96 EUs, up to 4 independent displays	<b>MEMORY</b> Two DDR4 SO-DIMM slots supporting DDR4-3200 ECC memory with IB ECC



#### MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Safety & Surveillance



Industrial Automation




#### FEATURES

<b>Processor</b>	<b>Intel® Core™ i7-1185G7E</b> , Quad Core @2.8GHz (4.4GHz Turbo) with HT, 12MB Cache, 28W TDP (12W cTDP) <b>Intel® Core™ i5-1145G7E</b> , Quad Core @2.6GHz (4.1GHz Turbo) with HT, 8MB Cache, 28W TDP (12W cTDP) <b>Intel® Core™ i3-1115G4E</b> , Dual Core @3.0GHz (3.9GHz Turbo) with HT, 6MB Cache, 28W TDP (12W cTDP) <b>Intel® Celeron® 6305E</b> , Dual Core @1.8GHz, 4MB Cache, 15W TDP	<b>Video Resolution</b>	DP, eDP Up to 5120x3200 @60Hz 24bpp / 7680x4320 @60Hz 30bpp with DSC HDMI® 1.4 Up to 4Kx2K 24-30Hz 24bpp
	<b>Intel® Core™ i7-1185GRE</b> , Quad Core @2.8GHz (4.4GHz Turbo) with HT, 12MB Cache, with IB ECC, 28W TDP (12W cTDP) - Industrial <b>Intel® Core™ i5-1145GRE</b> , Quad Core @2.6GHz (4.1GHz Turbo) with HT, 8MB Cache, with IB ECC, 28W TDP (12W cTDP) - Industrial <b>Intel® Core™ i3-1115GRE</b> , Dual Core @3.0GHz (3.9GHz Turbo) with HT, 6MB Cache, with IB ECC, 28W TDP (12W cTDP) - Industrial	<b>Mass Storage</b>	M.2 SATA SSD slot (socket 2 Key B type 2242/3042) ** M.2 NVMe slot (socket 3 Key M type 2280) PCIe Gen4 supported
	2x DDR4-3200 SODIMM slots Up to 64GB with IB ECC supported only with Intel® Core™ Industrial SoCs	<b>Networking</b>	2x NBase-T Ethernet interfaces, supporting 2.5Gb Ethernet connection, managed by as many Intel® i225 2.5GbE controllers M.2 WWAN slot (socket 2 Key B type 2242/3042) coupled to on-board Micro-SIM slot. ** M.2 WiFi/BT slot (socket 1 Key E type 2230)
	Up to two video decode boxes (VDBoxes) for enhanced video stream capabilities Support for up to 48 simultaneous 1080p streams ingestion Support for up to four independent displays at up to 4K60 HDR resolution or one display at 8K resolution	<b>USB</b>	2x SuperSpeed USB 10Gbps ports on Dual type-A socket 2x SuperSpeed USB 20Gbps ports on USB type-C slots 2x USB 2.0 on pin header
<b>Graphics</b>	<b>Audio</b>	HD audio codec / Cirrus Logic CS4207 Mic In, Line Out and S/PDIF Out, on pin header	
<b>Video Interfaces</b>	<b>Serial Ports</b>	2x RS-232/RS-422/RS-485 UARTS software configurable, on pin header	
	<b>Other Interfaces</b>	2x Expansion M.2 slot (socket 3 Key M type 2280) with 4x PCIe Gen3 lanes 8x GPIOs, 2x I2C, SPI connectors FAN connector RST_BTN#, PWR_BTN# and activity LED signals on pin header Optional TPM 2.0 on-board	
	<b>Power Supply</b>	+12V <sub>DC</sub> .. +24V <sub>DC</sub> range Cabled coin cell battery for RTC	

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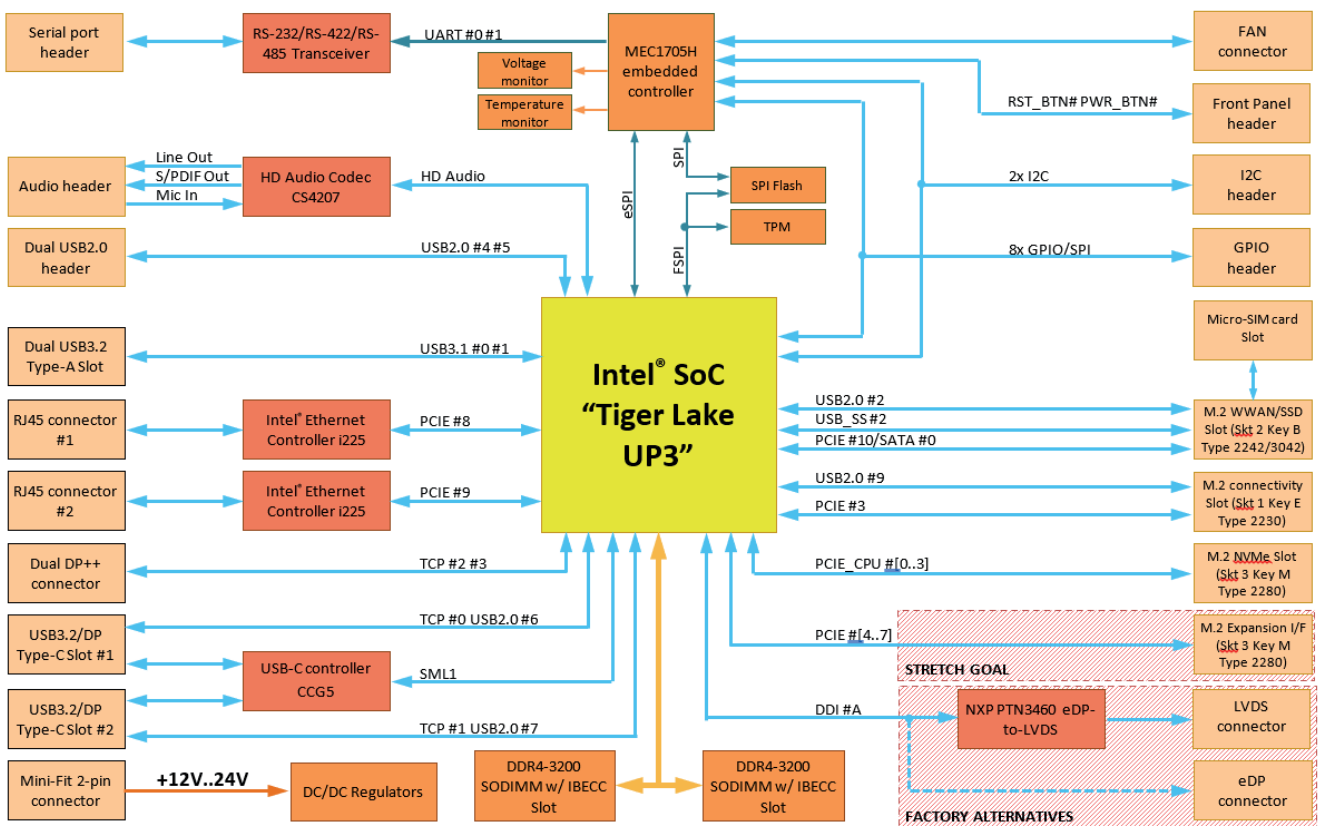
## FEATURES

	Operating System	Microsoft® Windows 10 IoT Enterprise LTSC 2021 Linux (Kernel ≥ 5.4 version)
	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
	Dimensions	146 x 102 mm (3.5" form factor)

\*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will depend on the application, enclosure, and/or environment. Each customer must consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

\*\*SATA SSD and WWAN functionalities share the same slot and are therefore mutually exclusive.

## 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.

## DATA ORCHESTRATION

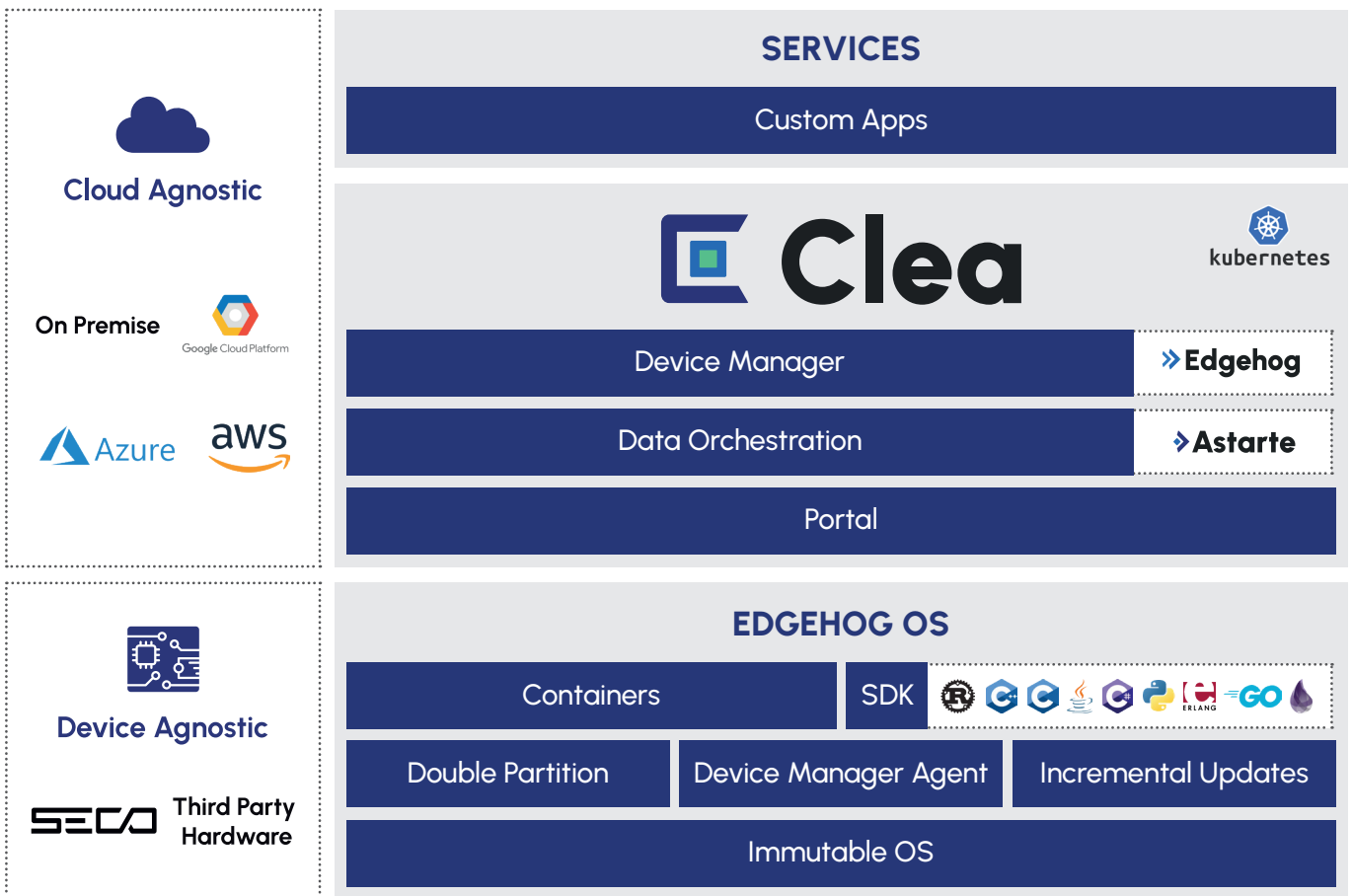
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.

## 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.



Scan to know more about our solution

EDGEHOG OS



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