



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

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



MAIN FIELDS OF APPLICATION



Coffee &
Vending



Medical



Safety &
Surveillance



Industrial
Automation

FEATURES

 Processor	Intel® Core™ i7-1185G7E , Quad Core @2.8GHz (4.4GHz Turbo) with HT, 12MB Cache, 28W TDP (12W cTDP)	DP, eDP Up to 5120x3200 @60Hz 24bpp / 7680x4320 @60Hz 30bpp with DSC
	Intel® Core™ i5-1145G7E , Quad Core @2.6GHz (4.1GHz Turbo) with HT, 8MB Cache, 28W TDP (12W cTDP)	HDMI® 1.4 Up to 4Kx2K 24-30Hz 24bpp
 Memory	Intel® Core™ i3-1115G4E , Dual Core @3.0GHz (3.9GHz Turbo) with HT, 6MB Cache, 28W TDP (12W cTDP)	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
	Intel® Celeron® 6305E , Dual Core @1.8GHz, 4MB Cache, 15W TDP	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)
 Graphics	Intel® Core™ i7-1185GRE , Quad Core @2.8GHz (4.4GHz Turbo) with HT, 12MB Cache, with iBEC, 28W TDP (12W cTDP) - Industrial	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
	Intel® Core™ i5-1145GRE , Quad Core @2.6GHz (4.1GHz Turbo) with HT, 8MB Cache, with iBEC, 28W TDP (12W cTDP) - Industrial	HD audio codec / Cirrus Logic CS4207 Mic In, Line Out and S/PDIF Out, on pin header
 Video Interfaces	Intel® Core™ i3-1115GRE , Dual Core @3.0GHz (3.9GHz Turbo) with HT, 6MB Cache, with iBEC, 28W TDP (12W cTDP) - Industrial	2x RS-232/RS-422/RS-485 UARTs software configurable, on pin header
	2x DDR4-3200 SODIMM slots Up to 64GB with iBEC supported only with Intel® Core™ Industrial SoCs	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
 Power Supply	Up to two video decode boxes (VDBoxes) for enhanced video stream capabilities	+12V _{DC} ... +24V _{DC} range Cabled coin cell battery for RTC
	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	

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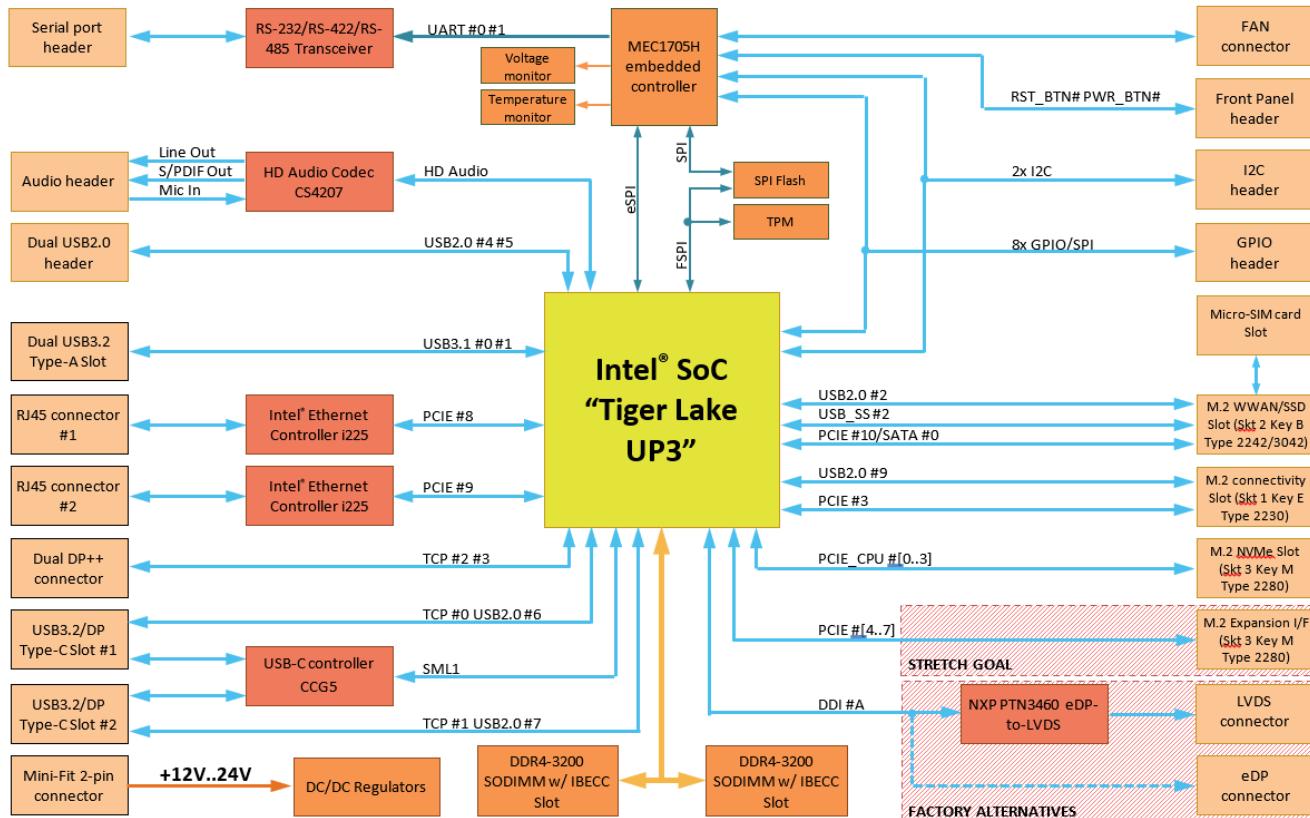
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 Operating System	Microsoft® Windows 10 IoT Enterprise LTSC 2021 Linux (Kernel ≥ 5.4 version)	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will depend on the 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.
 Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)	
 Dimensions	146 x 102 mm (3.5" form factor)	

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

BLOCK DIAGRAM



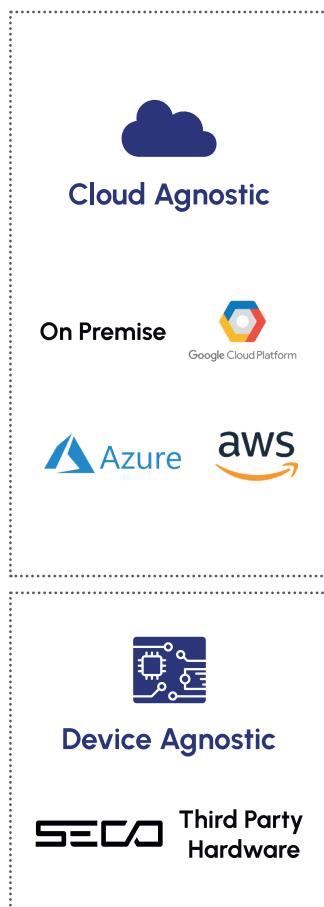
Streamline and expedite your edge computing implementations

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.

SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS

Scan to know more about our solution

EDGEHOG OS



CLEA DOCS

