

FANLESS EMBEDDED COMPUTERS



Titan 300 TGL-UP3

Fanless embedded computer with the 11th Gen Intel® Core™ and Intel® Celeron® SoCs (Codename: Tiger Lake UP3)

Rugged industrial box PC with 11th Gen Intel® Core™ performance



HIGHLIGHTS

CPU 11th Gen Intel® Core™ processors and Intel® Celeron® SoCs	CONNECTIVITY 2x 2.5 GbE, Optional M.2 WWAN and WLAN modules
GRAPHICS Intel® Iris® Xe architecture with up to 96 EUs, up to 4 independent displays	MEMORY Two DDR4 SO-DIMM slots supporting DDR4-3200 ECC memory with IBCEC



MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Safety & Surveillance



Industrial Automation



Smart Devices



Energy & Utilities



FEATURES

Processor	Intel® Core™ i7-1185G7E , Quad Core @ 2.8GHz (4.4GHz Turbo) with HT, 12MB cache, 28W TDP (12W cTDP) Intel® Core™ i5-1145G7E , Quad Core @ 2.6GHz (4.1GHz Turbo) with HT, 8MB cache, 28W TDP (12W cTDP) Intel® Core™ i3-1115G4E , Dual Core @ 3.0GHz (3.9GHz Turbo) with HT, 6MB cache, 28W TDP (12W cTDP) Intel® Celeron® 6305E , Dual Core @ 1.8GHz, 4MB cache, 15W TDP	Mass Storage On-Board NVMe Drive, up to 2 modules with global capacity up to 1TB
	Intel® Core™ i7-1185GRE , Quad Core @ 2.8GHz (4.4GHz Turbo) with HT, 12MB cache, with IBCEC, 28W TDP (12W cTDP) - Industrial Intel® Core™ i5-1145GRE , Quad Core @ 2.6GHz (4.1GHz Turbo) with HT, 8MB cache, with IBCEC, 28W TDP (12W cTDP) - Industrial Intel® Core™ i3-1115GRE , Dual Core @ 3.0GHz (3.9GHz Turbo) with HT, 6MB cache, with IBCEC, 28W TDP (12W cTDP) - Industrial	Networking 2x 2.5 Gigabit Ethernet RJ45 connectors Optional on-board M.2 Wi-Fi (802.11 ac / a / b / g / n) + BT 5.0 module, with dipole antennas included* Optional on-board M.2 LTE modem with Mini-SIM slot, with dipole antennas included* *Certification upon request
	2x DDR4-3200 SODIMM slots Up to 64GB (IBCEC supported only with Core™ industrial SoCs)	USB 2x Superspeed USB 10Gbps ports on Dual Type-A sockets 2x Superspeed USB 20Gbps on USB Type-C slots
	Up to two video decode boxes (VDBoxes) for enhanced video stream capabilities Support for up to four independent displays at up to 4K60 HDR resolution or one display at 8K resolution	Serial Ports 2x RS-232/RS-422/RS-485 UARTS software configurable, on DB9 connector
Memory	2x Multimode DisplayPort 1.4, on dual DP++ connector 2x Multimode Display Port 1.4 on USB Type-C connectors (alternate mode)	Audio Lineout + MicIn combo TRRS Audio Jack
Graphics	DP: up to 5120x3200 @60Hz 24bpp / 7680x4320@60Hz 30bpp with DSC HDMI® 1.4: up to 4Kx2K 24-30Hz 24bpp	Other Interfaces Optional 2x 12 poles terminal block connectors with the following I/O: 8x GPIOs 1x I2C 1x SPI 1x 5V 1x 3.3V 1x 12V 3x GND Power ON Button Optional TPM 1.2/2.0 module on-board
Video Interfaces	Power Supply 12V _{DC} to 24V _{DC} range, Mega-Fit 2p RA Connector Coin cell battery for RTC On-Board	
Video Resolution	Operating System Microsoft® Windows 10 IoT Enterprise LTSC 2021 Linux (Kernel ≥ 5.4 version)	

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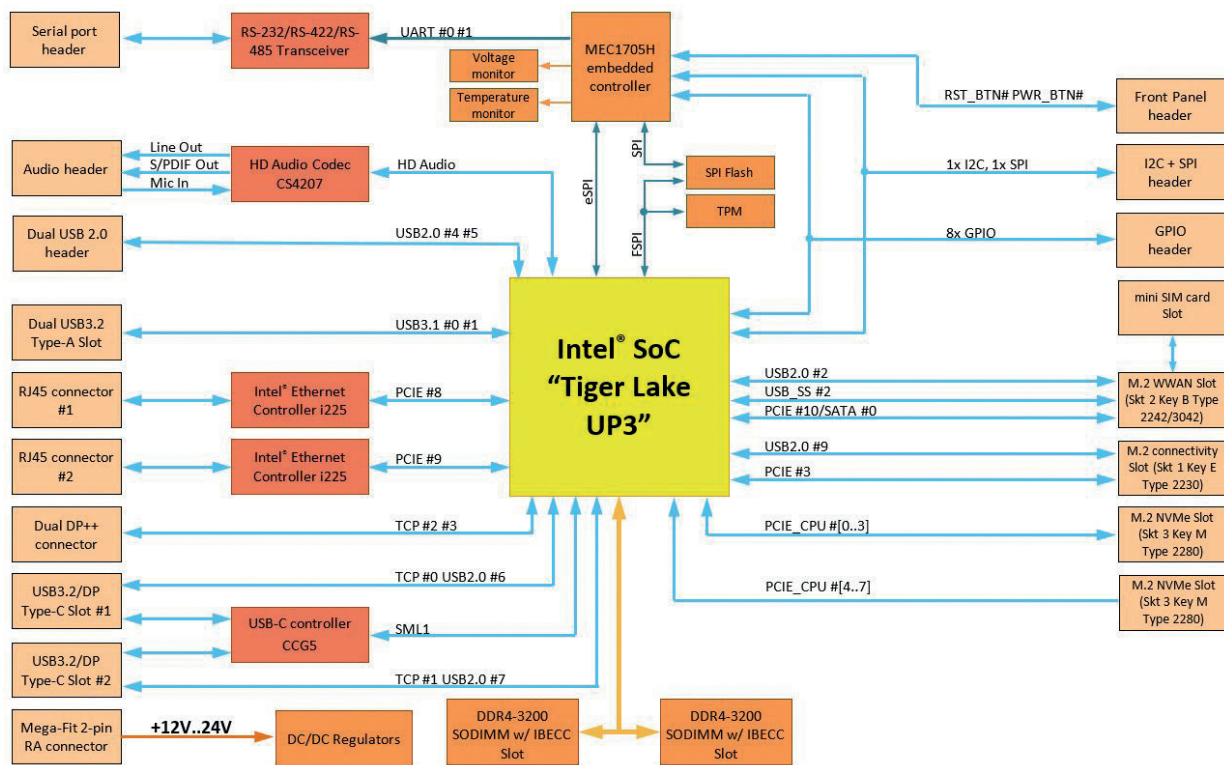
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FEATURES

 Operating Temperature*	Commercial range: 0 °C to +50 °C / CPU: 35 W (PL1: 28 W, PL2: 35 W) Industrial range: -40 °C ÷ +60 °C / CPU: 35 W (PL1: 28 W, PL2: 35 W)
 Dimensions	199 x 174 x 73 mm (7.83" x 6.85" x 2.87") DIN-rail or Wall Mount brackets (Factory Alternatives)

* The values indicated refer to the maximum temperature of the environment of use of the device. It is the customer's responsibility to verify that the temperature remains within the admissible range indicated in this datasheet and, if necessary, adopt any passive cooling solution together with an application-dependent cooling system that can ensure that the heat sink temperature will not damage the device itself and/or the connected mechanical parts.

BLOCK DIAGRAM



Information subject to change. Please visit www.seco.com to find the latest version of this datasheet

2/28/23

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DATA ORCHESTRATION

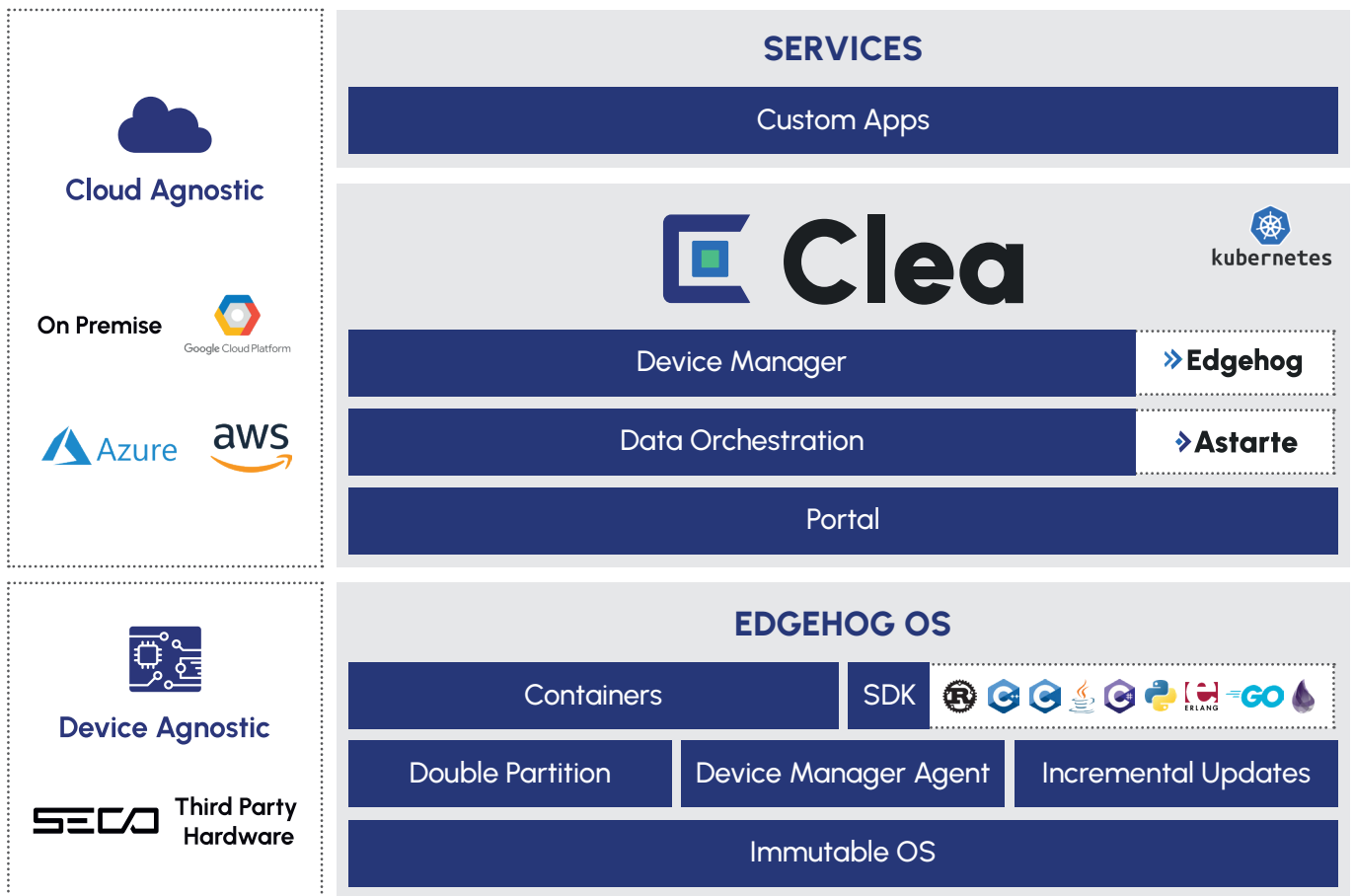
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