



SOM-COME-CT6-TGL-U

COM Express® Rel. 3.0 Compact Type 6 Module with 11th Gen Intel® Core™ (Codename: Tiger Lake UP3) Processors

High-performance, responsive CPU and GPU compute in COM Express® Compact form factor



HIGHLIGHTS

CPU Intel Core™ Series (formerly Tiger Lake UP3) Processors	CONNECTIVITY 1x GbE; 4x SuperSpeed USB 5Gbps; 8x USB 2.0; 8x PCI-e x1 Gen3; PEG x4 Gen4
GRAPHICS Integrated Intel Iris® Xe Graphics, up to 96 Execution Units	MEMORY Two DDR4 SO-DIMM Slots supporting DDR4-3200 IBECC memory, up to 64GB

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Medical



Transportation



Industrial Automation



Digital Signage

FEATURES

Processor	Intel® Core™ i7-1185G7E , Quad Core @2.8GHz (4.4GHz Turbo Boost), 12MB Cache, 28W TDP (12W cTDP), with Hyperthreading	Video Interfaces Up to 3x Digital Display Interfaces (DDIs), supporting DP 1.2, eDP 1.4, HDMI® 1.4, DVI 1x eDP 1.4 or Single/Dual-Channel 18-/24-bit LVDS interface 1x VGA interface
	Intel® Core™ i5-1145G7E , Quad Core @2.6GHz (4.1GHz Turbo Boost), 8MB Cache, 28W TDP (12W cTDP), with Hyperthreading	Video Resolution eDP, DP: up to 5120x3200 @60Hz 24bpp / 7680x4320 @60Hz 30bpp with DSC HDMI®: up to 4096x2160 @24Hz, 24bpp LVDS: up to 1920x1200 @60Hz VGA: up to 2048 x 1536 @50Hz
	Intel® Core™ i3-1115G4E , Dual Core @3.0GHz (3.9GHz Turbo Boost), 6MB Cache, 28W TDP (12W cTDP), with Hyperthreading	Mass Storage 2x SATA Gen3 channels 2x PCI-e x4 ports available for M.2 NVMe drives
	Intel® Core™ i7-1185GRE , Quad Core @2.8GHz (4.4GHz Turbo Boost), 12MB Cache, with IBECC, 28W TDP (12W cTDP), with Hyperthreading - Industrial	Networking Gigabit Ethernet interface Intel® I225 GbE controller
Chipset	Intel® Core™ i5-1145GRE , Quad Core @2.6GHz (4.1GHz Turbo Boost), 8MB Cache, with IBECC, 28W TDP (12W cTDP), with Hyperthreading - Industrial	USB 4x SuperSpeed USB 5Gbps host ports 8x USB 2.0 Host ports
Memory	Intel® Core™ i3-1115GRE , Dual Core @3.0GHz (3.9GHz Turbo Boost), 6MB Cache, with IBECC, 28W TDP (12W cTDP), with Hyperthreading - Industrial	PCI-e 8x PCI-e x1 Gen3 lanes PCI-express Graphics (PEG) x4 Gen4
Graphics	Integrated Intel® PCH-LP	Audio HD audio interface
	Two DDR4 SO-DIMM slots supporting DDR4-3200 memory, up to 64GB IBECC DDR4 memory modules supported only with Intel® Core™ Industrial SoCs	Serial Ports 2x UARTs
	Intel® Iris® Xe Graphics, up to 96 Execution Units Up to 4 independent displays supported Support DirectX 12, OpenGL 4.6, OpenCL 3.0 and Vulkan 1.2 HW accelerated video decode AVC/H.264, HEVC/H.265, VP8I, VP9, AVI HW accelerated video encode AVC/H.264, HEVC/H.265, VP8I, VP9	Other Interfaces SPI, I2C, SM bus, thermal management, FAN management LPC bus Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4x GPIO, 4x GPO
		Power Supply +12V _{DC} ± 10%, +5V _{SB} (optional), +3VRTC (optional)
		Operating System Microsoft® Windows 10 Microsoft® Windows 10 IoT Core Linux

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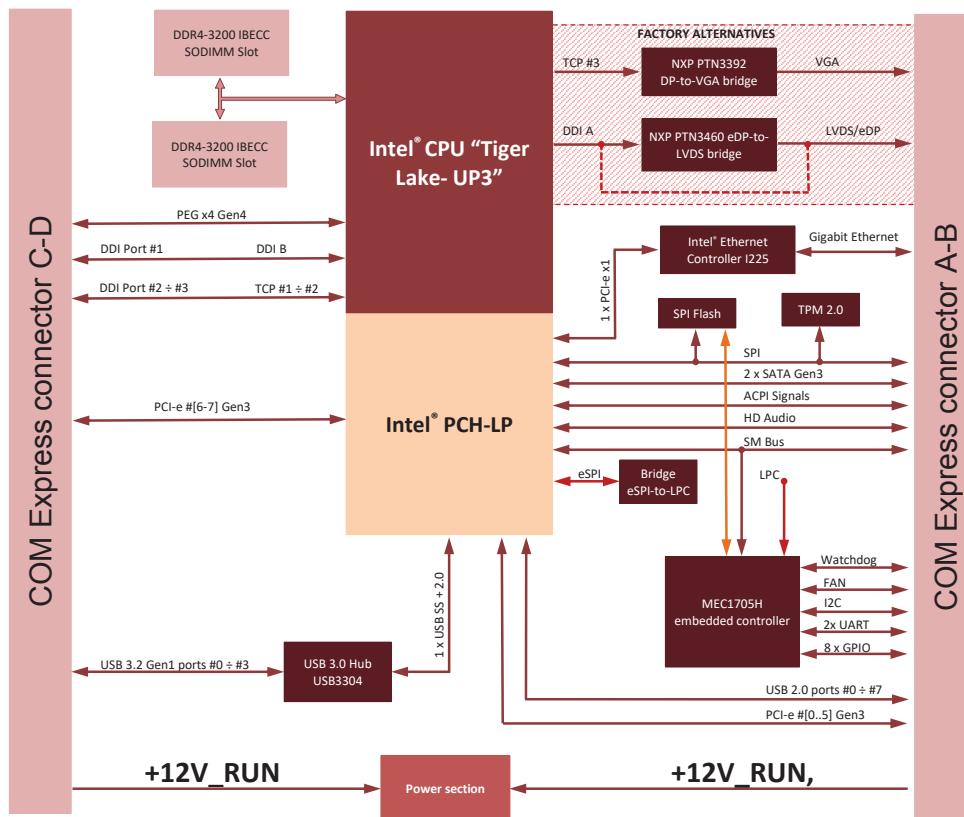
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FEATURES

Operating Temperature*	0°C ÷ +60°C (Commercial) -40°C ÷ +85°C (Industrial)
Dimensions	95 x 95 mm (COM Express® Compact Form factor, Type 6 pinout)

*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



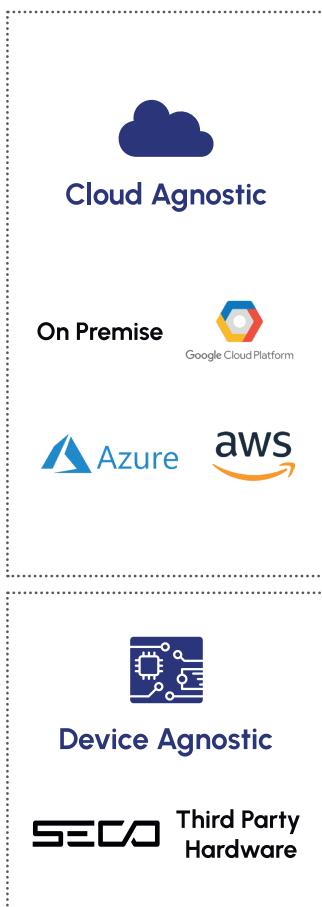
Streamline and expedite your edge computing implementations

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.

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

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EDGEHOG OS



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