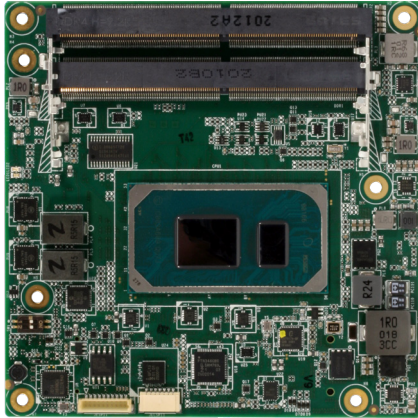


COM-TGUC6

COM Express Type 6 Compact Size with 11th Gen Intel® Core™/Celeron® Processor 6000 Series Processors



Features

- DDR4 3200MHz SODIMM x 2, up to 64GB
- VGA x 1, LVDS x 1, DDI x 3
- USB 2.0 x 8, USB 3.2 Gen2 x 4
- PCIe [x1] x 5, PEG [x4] x1
- Intel® Ethernet Controller i225/i226-LM 2.5GbE x 1
- COM Express Type 6, 3.74" x 3.74" (95mm x 95mm)



Distributed by:



Specifications

System	
Form Factor	COM Express Compact Size, Type 6
CPU	11th Generation Intel® Core™ Processors: Intel® Core™ i7-1185G7E (4C/8T, 1.8 GHz, 15W) Intel® Core™ i7-1185GRE (4C/8T, 1.80 GHz, 15W, In-Band ECC) Intel® Core™ i5-1145G7E (4C/8T, 1.5 GHz, 15W) Intel® Core™ i5-1145GRE (4C/8T, 1.50 GHz, 15W, In-Band ECC) Intel® Core™ i3-1115G4E (2C/4T, 2.20 GHz, 15W) Intel® Core™ i3-1115GRE (2C/4T, 2.20 GHz, 15W, In-Band ECC) Intel® Celeron® Processor 6000 Series: Intel® Celeron® 6305E Processor (2C/2T 1.80 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory	DDR4 3200MHz Dual Channel SODIMM x 2, up to 64GB (In-Band ECC by SKU)
Onboard Storage	—
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.74" x 3.74" (95mm x 95mm)
Security	TPM 2.0
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Core™ i7-1185GRE, 3.5A @+12V
Display	
Graphics Controller	Intel® Iris® Xe Graphics Intel® UHD Graphics
Video Output	4 Simultaneous Displays: DDI x 3, up to 3840 x 2160 18/24-bit Single/Dual-Channel LVDS/eDP x 1, up to 1920 x 1080/3840 x 2160 VGA x 1, up to 1920 x 1080
I/O	
Ethernet	Intel® Ethernet Controller i225/i226-LM 2.5GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen 2 x 4
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA III x 2

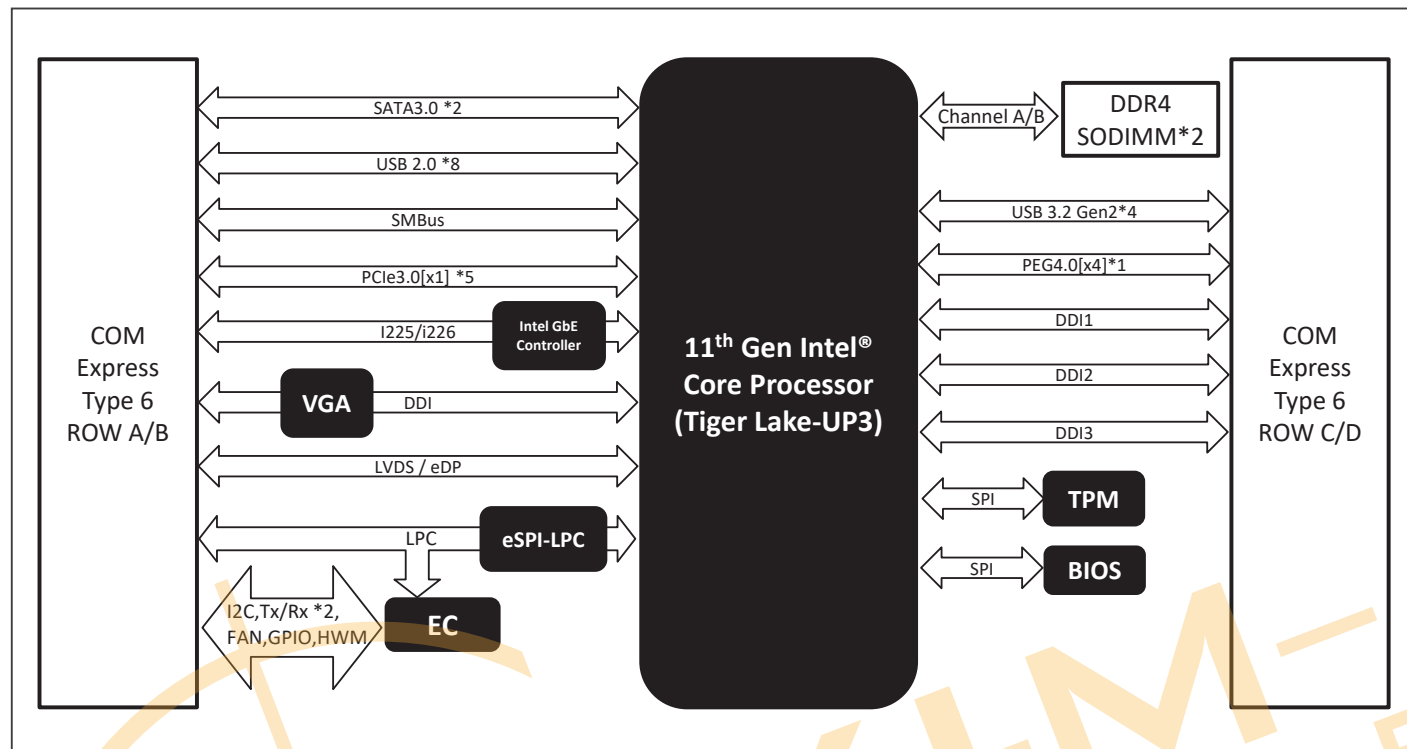
Expansion	PEG 4.0 [x4] x 1 PCIe 3.0 [x1] x 5 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1, SMBus x 1
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) on selected CPU SKU
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
EMC	CE/FCC Class A
OS Support	Windows® 10 (64-bit) Linux Ubuntu 20.04.2/Kernel 5.8
Weight	0.44 lb. (0.20Kg)

Packing List

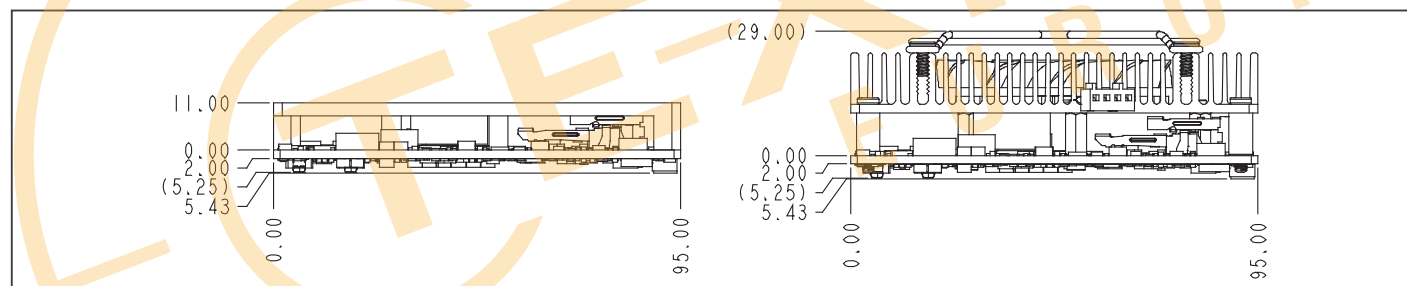
- COM-TGUC6

Optional Accessories

Part Number	Description
ECB-920A-A11-0001	COMe Type 6/10 Carrier Board. ATX. 2.5GbE. 8USB. 2COM. 4SATA. PCIe. AT/ATX. Rev.A1.1
COM-TGUC6-FAN01	Cooler. 95mm x 95mm x 24mm. 4pin
COM-TGUC6-HSP01	Heat Spreader. 95mm x 95mm x 11mm. Black

Block Diagram**Dimension**

Unit: mm

**Ordering Information**

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
COM-TGUC6-A10-0001	Type 6	Intel® Core™ i7-1185G7E	DDR4 SODIMM x 2	—	VGA x 1, LVDS x 1, DDI x 3	SATA III x 2	Intel® i225/i226-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 5 PEG [x4] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-TGUC6-A10-0002	Type 6	Intel® Core™ i5-1145G7E	DDR4 SODIMM x 2	—	VGA x 1, LVDS x 1, DDI x 3	SATA III x 2	Intel® i225/i226-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 5 PEG [x4] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-TGUC6W2-A10-0005	Type 6	Intel® Core™ i7-1185G7E	DDR4 SODIMM x 2	—	VGA x 1, LVDS x 1, DDI x 3	SATA III x 2	Intel® i225/i226-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 5 PEG [x4] x 1	12V	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus, SPI

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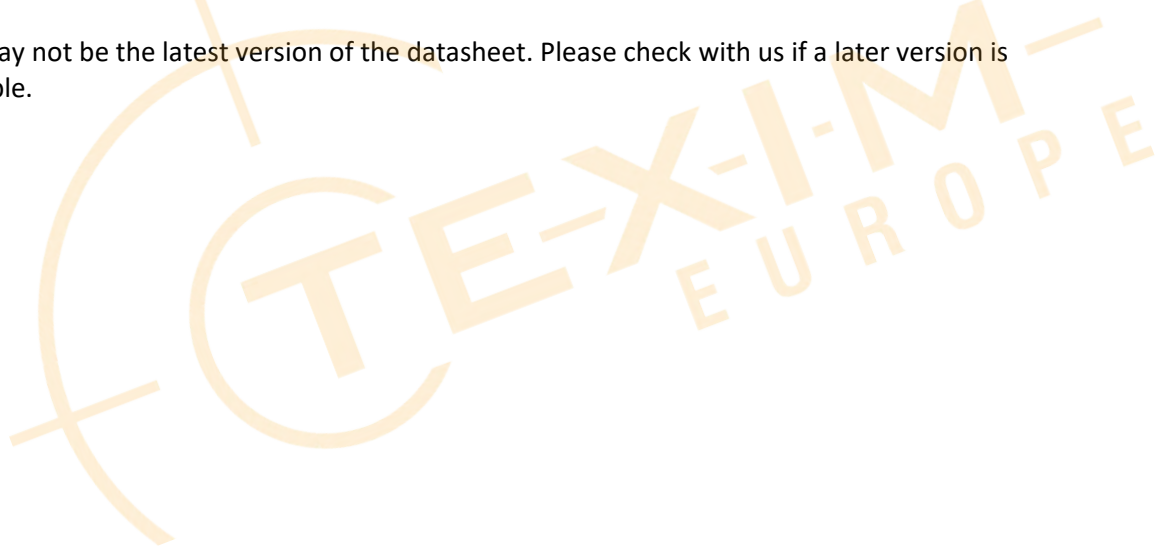
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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