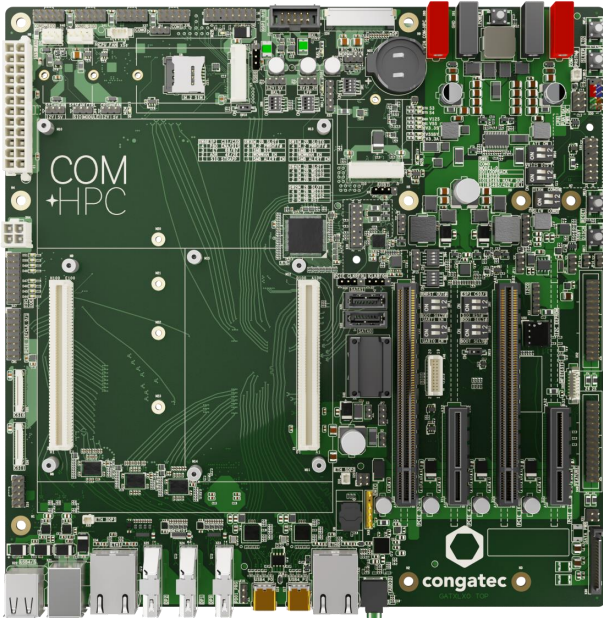# Application Carrier for COM-HPC Client
conga-HPC/uATX
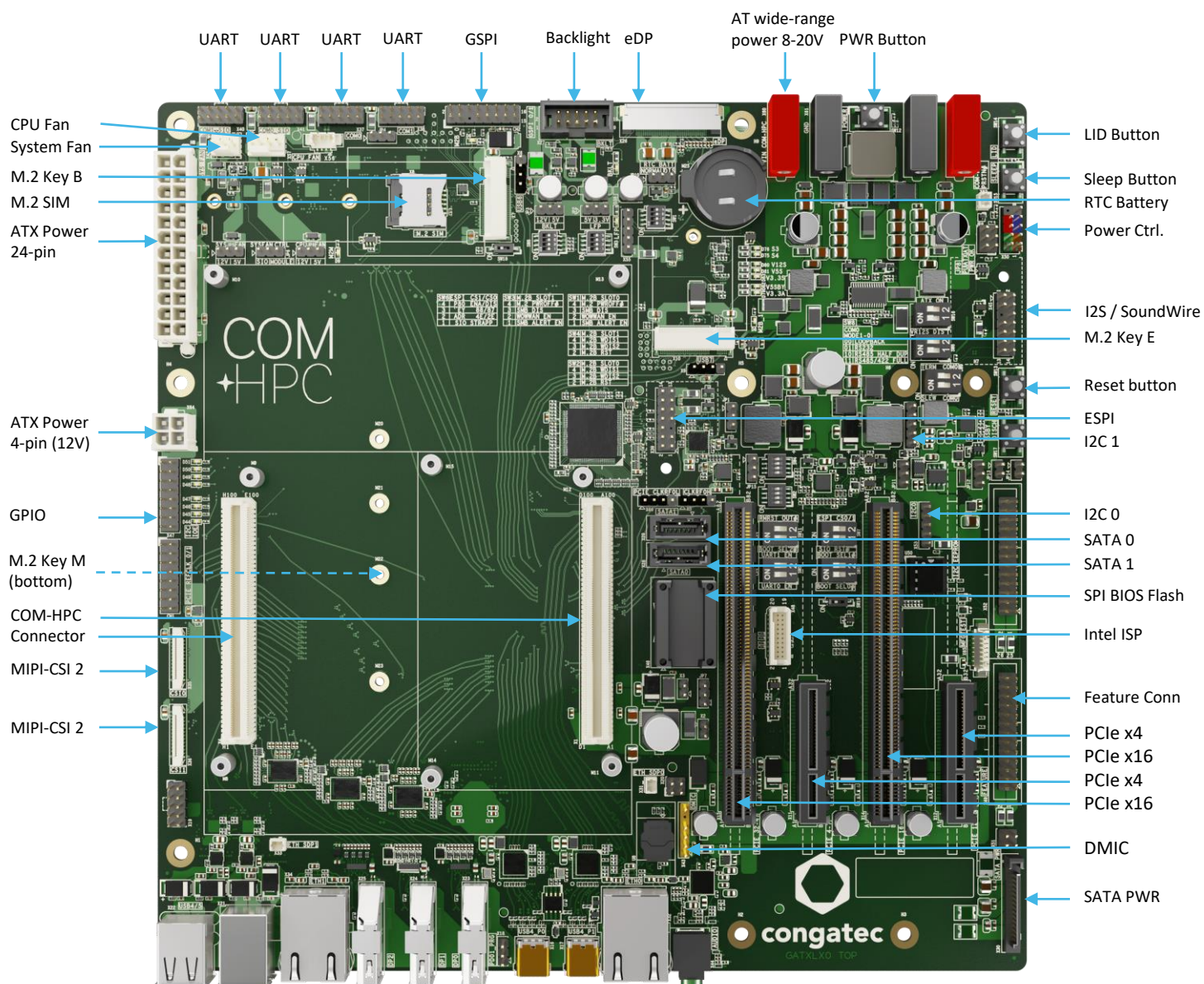

- Application carrier board for COM-HPC
- Scalable µATX motherboard
- Longevity by module concept
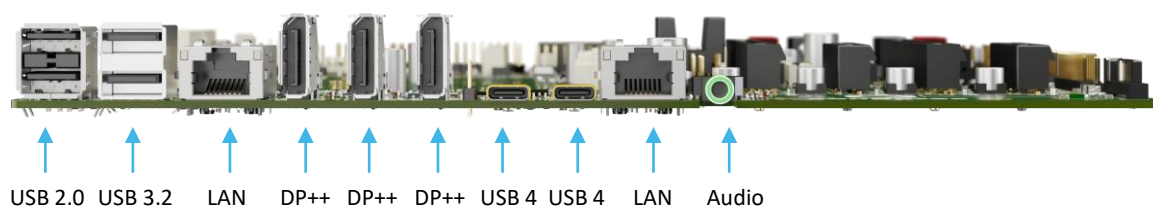- Quick start for COM-HPC

Form Factor	Standard Micro-ATX
Board Type	Application Carrier Board for COM-HPC Client Type Modules (Sizes A, B, C)
Internal IO	2x PCIe Gen4 x16 | 2x PCIe Gen4 x4 | 2x SATA III | 1x 2.5" Disk Drive Power connector 1x M.2 Key B 2242/3042/2260/2280 (USB2, PCIe x2, SIM) | 1x M.2 Key E 2230/3030 (USB2, PCIe x2) 1x M.2 Key M 2242/2260/2280/22110 (PCIe x4, bottom side) 1x eDP (optional for LVDS) 1x DMIC header | 1x I2S/SoundWire header 2x MIPI CSI2/3 4-lane camera FFC | 2x UART native by module | 2x UART by Super IO 1x General Purpose SPI | 2x I2C header | 1x SMB header | 12x GPIO by header 1x Feature header with system control signals | 1x System Fan | 1x CPU Fan | 1x RTC CMOS battery holder 1x Power button | 1x Reset button | 1x LID button | 1x Sleep button 1x SPI boot flash socket | 1x Intel ISP header | 1x ATX power connector 24-pin | 1x AT banana power jacks 8-20V
External IO	1x Dual USB 2 | 2x Dual USB 3.2 up to 10Gbps | 2x USB4 with Thunderbolt Re-timer (1x with Power Delivery) 3x DP++ with 8.1 Gbps Re-driver | 2x 2.5GbE RJ45 with IEEE1588 support 1x Audio Jack 4-pin | on-carrier HDA codec
Power Management	ACPI 6.0
Operating Systems	Microsoft® Windows 11 | Microsoft® Windows 10 | Microsoft® Windows 10 IoT Enterprise | Linux | Yocto
Temperature Range	Commercial: Operating Temperature: 0 to +60°C Storage Temperature: -20 to +80°C
Humidity	Operating: 10 to 85% r. H. non cond. Storage: 5 to 85% r. H. non cond.
Size	244 x 244 mm^2

conga-HPC/uATX | Internal IO

Labels (top, left to right): UART, UART, UART, UART, GSPI, Backlight, eDP, AT wide-range power 8-20V, PWR Button

Labels (left side):
- CPU Fan
- System Fan
- M.2 Key B
- M.2 SIM
- ATX Power 24-pin
- ATX Power 4-pin (12V)
- GPIO
- M.2 Key M (bottom)
- COM-HPC Connector
- MIPI-CSI 2
- MIPI-CSI 2

Labels (right side):
- LID Button
- Sleep Button
- RTC Battery
- Power Ctrl.
- I2S / SoundWire
- M.2 Key E
- Reset button
- ESPI
- I2C 1
- I2C 0
- SATA 0
- SATA 1
- SPI BIOS Flash
- Intel ISP
- Feature Conn
- PCIe x4
- PCIe x16
- PCIe x4
- PCIe x16
- DMIC
- SATA PWR

COM HPC

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GATXLX0 TOP

conga-HPC/uATX | Front Panel

Labels (left to right): USB 2.0, USB 3.2, LAN, DP++, DP++, DP++, USB 4, USB 4, LAN, Audio

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conga-HPC/uATX | Order Information

Article	PN	Description
conga-HPC/uATX-Client	065620	COM-HPC Client µATX carrier board suitable for congatec COM-HPC modules with Size A,B and C.

conga-HPC/uATX | Compatible Modules

conga-HPC/cRLS

COM-HPC Client Size C high performance module based on 13th Gen Intel® Core™ processor series (code name "Raptor Lake")

conga-HPC/cRLP

COM-HPC Client Size A high performance module based on 13th Gen Intel® Core™ processor series (code name "Raptor Lake")

conga-HPC/cTLH

COM-HPC Client Size B high performance module based on 11th Gen Intel® Core™ processor series (code name "Tiger Lake-H")

conga-HPC/cTLU

COM-HPC Client Size A high performance module based on 11th Gen Intel® Core™ processor series (code name "Tiger Lake")

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