

BAREBONE

- 19" 2 RU chassis, optional 1 or 3 RU
- 740 Watt redundant power supply
- 8x 3.5" HDD/SSD bays
- Frontpanel with Keyboard/Video/Mouse (KVM) support
- LCD Display for management and monitoring
- Size: 647 x 437 x 89 mm (DxWxH)

CARRIER

- Can be purchased individually or seamlessly integrated in chassis
- t.RECS carrier dimension: E-ATX standard, 330 x 305 mm (DxW)
- Support for 3 COM-HPC microservers



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DESIGNED WITHIN



Funded by the
European Union
Grant No 957197



t.RECS

Heterogeneous Edge Computing Platform

Modular Processing Solutions based on x86, ARM, FPGA and GPU Microservers

COM+HPC®



t.RECS CONCEPT

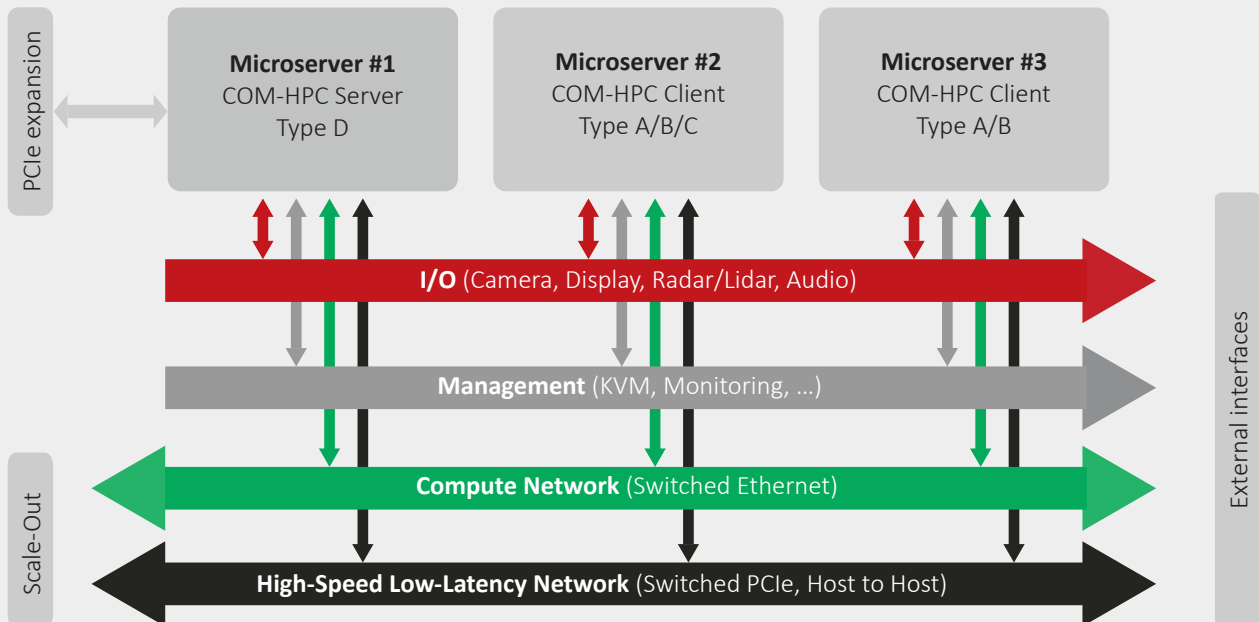
- Optimised Platform for Edge Applications
- Multi-microserver carrier with heterogeneous COM-HPC configurations
- Microservers interconnected via 10 Gbit Ethernet & PCI Express (Host-2-Host)
- Versatile and adaptable hardware platform to fit a wide range of applications requirements
- Ideal to realise extreme edge workloads, real-time requirements and energy-efficiency
- Increase performance with FPGA and GPGPU accelerators

ARCHITECTURE

- 3x COM-HPC:
 - Server Size D, Client Size A/B/C, Client Size A/B
- Carrier complies with E-ATX form factor
- 2 RU chassis with extra LCD Display for Management
- Switched 10 Gb Ethernet
- Integrated PCIe Gen3 Switch for Host-2-Host communication and sharing PCIe devices
- PCIe x16 Slot for Mod 1 (COM-HPC Size D)
- Dedicated 1 Gb Ethernet Management with WebGUI, IPMI, Redfish, iKVM

Additional microserver standards via adapter:

- COM Express Type 6/7
- NVIDIA Jetson AGX Xavier / Orin



INTERFACES

COM-HPC Server

- PCIe x8 Gen3 switched
- PCIe x16 Slot
- 4x 10 GbE and 1x 1 GbE (switched)
- 2x 3.2 USB Type C backpanel
- Onboard GPU to DisplayPort (shared via KVM)
- USB 2.0, 2x Header, 2x backpanel (shared via KVM)
- SATA
- M.2 NVMe SSD
- GPIO Header (Fan, I2C, 8x GPIO, UART, SPI)

I/O Shield

- 4x 10G RJ45
- 6x USB-C
- 2x DisplayPort
- 2x USB 2.0 (KVM)
- Management Ethernet RJ45

COM-HPC Client

- PCIe x8 Gen3 switched
- 2x 10 GbE and 1 GbE (switched)
- 2x USB 3.2 Gen 1x2 Type C backpanel
- USB 2.0, 2x Header, 2x backpanel (shared via KVM)
- DisplayPort (shared via KVM)
- SATA
- M.2 NVMe SSD
- GPIO Header (Fan, I2C, 8x GPIO, UART, SPI)
- AUX (CSI, I2S, SoundWire)