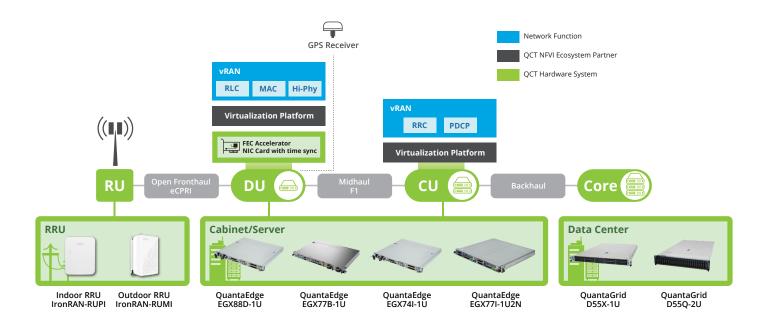




# CU/DU Server for Open RAN and Core Server for Data Center

Open RAN transforms the architecture of mobile network by bringing cloud, AI and machine learning into the radio access network. It also optimizes management and brings unlimited possibility to synergy with new applications, accelerating the construction of a 5G world.

QCT offers a comprehensive product line to support Open RAN deployments in various scenarios, including Centralized RAN and Distributed RAN. The server design supports the capacity required by vRAN workloads with O-RAN function split option 7-2, time synchronization, and virtualization. In addition, the server reserves flexibility for future expansion including MEC application. Additionally, our high-performance core servers provide the foundation for critical network functions, enabling efficient and scalable operations for the entire Open RAN system.





### **Open RAN centric COTS Design**

- Optimized expansion slots for maximum I/O ports
- System validated with accelerator and NIC card with time synchronization function
- System validated with latest selected Intel CPU
- < <400 mm short depth fitting Telco cabinet
- Lower power consumption



### Integration and Optimization

Workload optimized Intel select vRAN configuration



### **Environmental Robust**

- Wide operation temperature range
- System comply with NEBS Level 3
- MTBF 100,000 hours



### Management

- Support Redfish v1.8
- Customized BMC and BIOS Setup supports virtualized platform and Open RAN requirement
- Technology of failure precautious



### Community Involvement









# **Core Server**

## Powered by Intel<sup>®</sup> Xeon<sup>®</sup> 6 processors with PCIe 5.0

### The QuantaGrid D55X-1U is a powerful server featuring dual Intel<sup>®</sup> Xeon<sup>®</sup> 6 processors, 32x DDR5 RDIMM memory of up to 6,400 MHz, and versatile storage options including 2.5" hot-pluggable drives, E1.S, and E3.S tiers. It supports 3x PCIe 5.0 x16 expansions for networking, GPUs, and DPU devices, all within a compact 1U chassis.



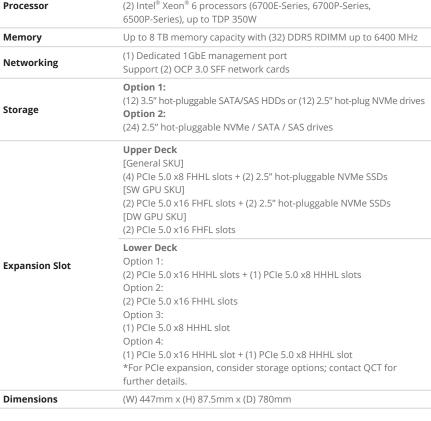
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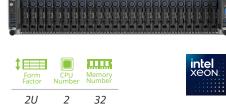
Quanta cha boox to	
Processor	(2) Intel <sup>®</sup> Xeon <sup>®</sup> 6700E/6700P/6500P-Series processor, up to 350W
Memory	Up to 8 TB memory capacity with (32) DDR5 RDIMM, up to 6400 MHz
Networking	(1) Dedicated 1GbE management port Support (2) OCP 3.0 SFF network cards
Storage	Option 1: (12) 2.5" hot-pluggable NVMe/SATA/SAS drives Option 2: (16) E1.S hot-pluggable NVMe drives Option 3: (20) E3.S 1T hot-pluggable NVMe drives Option 4: (4) E3.S 1T hot-pluggable NVMe drives + (8) E3.S 2T CXL devices
Expansion Slot	Option 1   (2) PCIe 5.0 x16 FHHL slots   (2) PCIe 5.0 x16 OCP 3.0 SFF slots   Option 2   (3) PCIe 5.0 x16 HHHL slots   (2) PCIe 5.0 x16 OCP 3.0 SFF slots
Dimensions	(W) 447 x (H) 43.2mm x (D) 780 mm

### QuantaGrid D55Q-2U

The QuantaGrid D55Q-2U is a robust Processor Storage



server equipped with dual Intel<sup>®</sup> Xeon<sup>®</sup> 6 processors, 32x DDR5 RDIMM memory of up to 6,400 MHz, and versatile storage options including 3.5" and 2.5" drives. It features flexible networking with 2x OCP 3.0 SFF slots and offers multiple PCIe 5.0 expansion options, making it a versatile solution for diverse device support in modern data centers.



QuantaGrid D55X-1U

# CU/DU Server

# Pizza Box Design *Powered by Intel* <sup>®</sup> Xeon<sup>®</sup> 6 SoC with PCIe 5.0

The QuantaEdge EGX88D-1U is a compact, efficient server designed for optimal performance. Its 300 mm chassis depth allows easy cable management and ample airflow. It features integrated vRAN acceleration, GNSS for precise timing, a 1+1 redundant AC/DC PSU for reliability, and front access for easy maintenance.



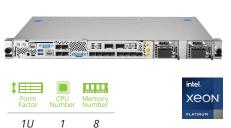
Processor	(1) Intel <sup>®</sup> Xeon <sup>®</sup> 6 SoC, up to TDP 325W
Momory	HCC: (4) DDR5 RDIMM up to 6400 MHz
Memory	XCC: (8) DDR5 RDIMM up to 6400 MHz
	Density SKU
Networking	(24) 25GbE SFP28 (LoM & QCT LAN BD)
	Expansion SKU
	(16) 25GbE SFP28 (LoM)
	OCP3.0 D-SFF SKU
	(24) 25GbE SFP28 (LoM & Intel Carter Flat)
Storage	(2) SATA/NVMe M.2 2280/22110
	Expansion SKU
Expansion Slot	(1) FHHL PCIe 5.0
	OCP3.0 D-SFF SKU
	(1) OCP 3.0 PCIe 5.0 for Intel Carter Flat
Dimensions	(W) 447.8 x (H) 42.8 x (D) 300.65 mm (ear to rear wall)

# 5th/4th Gen Intel <sup>®</sup> Xeon<sup>®</sup> Scalable Platform with PCIe 5.0

### QuantaEdge EGX77B-1U

QuantaEdge EGX88D-1U

QuantaEdge EGX77B-1U is a 300mm extremely short depth edge server that features wide operation temperature and up to 12 LOM for advanced networking. Powered by 5th/4th Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processors, this model delivers enhanced performance with a built-in FEC and SyncE on board.



Processor	(1) 5th/4th Gen Intel $^{\circ}$ Xeon $^{\circ}$ Scalable processor, up to 250W TDP	
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB	
Storage	(2) SATA/NVMe M.2 2280	
Network Controller	<b>Config 1</b> (8) 25GbE w/ SyncE NCSI	Config 2 (4) 25GbE and (8) 10GbE w/ SyncE NCSI
Expansion Slot	(1) FHHL PCIe Gen5 x16	
Dimensions	(W) 447.8mm x (H) 42.8mm x (D) 300.65mm (ear to rear wall)	
<b>Operating Temperature</b>	-5°C to 55°C; -40°C to 65°C (optional)	



# Pizza Box Design

# 5th/4th Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Platform with PCIe 5.0

QuantaEdge EGX74I-1U is a 400mm ultra short depth edge server that features flexible configuration and wide operation temperature. Powered by 5th/4th Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processors, this model also delivers higher performance with a built-in FEC.



Processor	(1) 5th/4th Gen Intel <sup>®</sup> Xeon <sup>®</sup> S	calable processor, up to 250W TDI
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB	
Storage	<b>Storage SKU</b> (2) NVMe/SATA3 M.2 2280 (2) 2.5" U.2 SSDs	<b>Expansion SKU</b> (2) NVMe/SATA3 M.2 2280
Network Controller	(4) 25GbE SFP28	
Expansion Slot	<b>Storage SKU</b> (2) FH3/4L PCIe Gen5 x16	<b>Expansion SKU</b> (1) FHHL PCle Gen5 x16 (2) FH3/4L PCle Gen5 x16*
Form Factor	1U Rackmount	
Dimensions	(W) 447.8mm x (H) 42.8mm x (D) 400mm	
Operating Temperature	-5°C to 55°C; -40°C to 65°C (optional)	

\* Note : (FH3/4L) supports 266.7mm length GPU

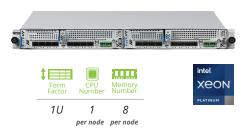
QuantaEdge EGX74I-1U

# Sled Design

# 5th/4th Gen Intel <sup>®</sup> Xeon<sup>®</sup> Scalable Platform with PCIe 5.0

### QuantaEdge EGX77I-1U2N

QuantaEdge EGX77I-1U2N is a 400mm ultra short depth edge server powered by 5th/4th Gen Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processors. This model features high density and flexibility with two nodes, providing optimal computing performance and better costeffectiveness with a chip-down design.



Learn more: https://go.qct.io/telco/

Processor	(1) 5th/4th Gen Intel $^{\circ}$ Xeon $^{\circ}$ Scalable processor, up to 50W TDP	
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB	
Storage	(2) SATA/NVMe M.2 2280	
Network Controller	Expansion SKU (8) 25GbE w/ Sync-E, NCSI	Density SKU (4) 25GbE + (8) 10GbE SFP ports w/ Sync-E, NCSI
Expansion Slot	<b>Expantion SKU</b> (1) FHHL PCle Gen 5 x16 (1) HHHL PCle Gen 5 x16	Density SKU (1) FHHL PCle Gen5 x16
Form Factor	1U Rackmount	
Dimensions	(W) 447.8mm x (H) 42.8mm x (D) 400mm	
Operating Temperature	-5°C to 55°C; -40°C to 65°C (optional)	

# Next-gen RRU

The IronRAN RUPI is a high-performance indoor Remote Radio Unit (RRU) with 4 x 250mW output power and 5G RU O-RAN compliance. It supports n78, n79, and n48 frequency bands, offering flexibility for various deployments. With software-defined radio technology, it's ideal for both private and public networks, making it a versatile choice for many applications.



Band	n78, n79, n48
Network	5G SA
3GPP Compliance	5G NR Release 16
МІМО	4T4R
Maximum Output Power	4 x 250mW
Bandwidth	Up to 100MHz
Carrier Aggregation	Up to 4CC
Synchronization	IEEE 1588v2, SyncE
Function Split	O-RAN option 7-2a
Ingress Protection	IP30
Power Supply	100~240V AC (AC adapter); POE++
<b>Operating Environment</b>	5°C~ 45°C
Dimensions	(W) 204.7 x (H) 259.6 x (D) 52.5 mm without mount kit (W) 204.7 x (H) 259.6 x (D) 72.5 mm with mount kit
Placement	Wall mount/ceiling mount

The IronRAN RUMI is a robust outdoor Remote Radio Unit (RRU) with 4 x 5W output and 5G RU O-RAN compliance. It supports n78, n79, and n48 frequency bands, offering flexible deployment. Its software-defined Radio technology allows easy configuration for both private and public networks, making it a versatile solution for various needs.



### IronRAN-RUMI

IronRAN-RUPI

Band	n78, n79, n48
Network	5G SA
3GPP Compliance	5G NR Release 16
МІМО	4T4R
Maximum Output Power	4 x 5W
Bandwidth	Up to 100MHz
Carrier Aggregation	Up to 4CC
Synchronization	IEEE 1588v2, SyncE
Function Split	O-RAN option 7-2a
Ingress Protection	IP65
Power Supply	100~240V AC (AC adapter) *subject to change
<b>Operating Environment</b>	-40°C~ 55°C
Dimensions	(W) 355 x (H) 418.5 x (D) 165 mm *subject to change
Placement	Wall mount/pole mount

### QCT Telco Solution

www.QCT.io



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