



TELCO

Product Portfolio

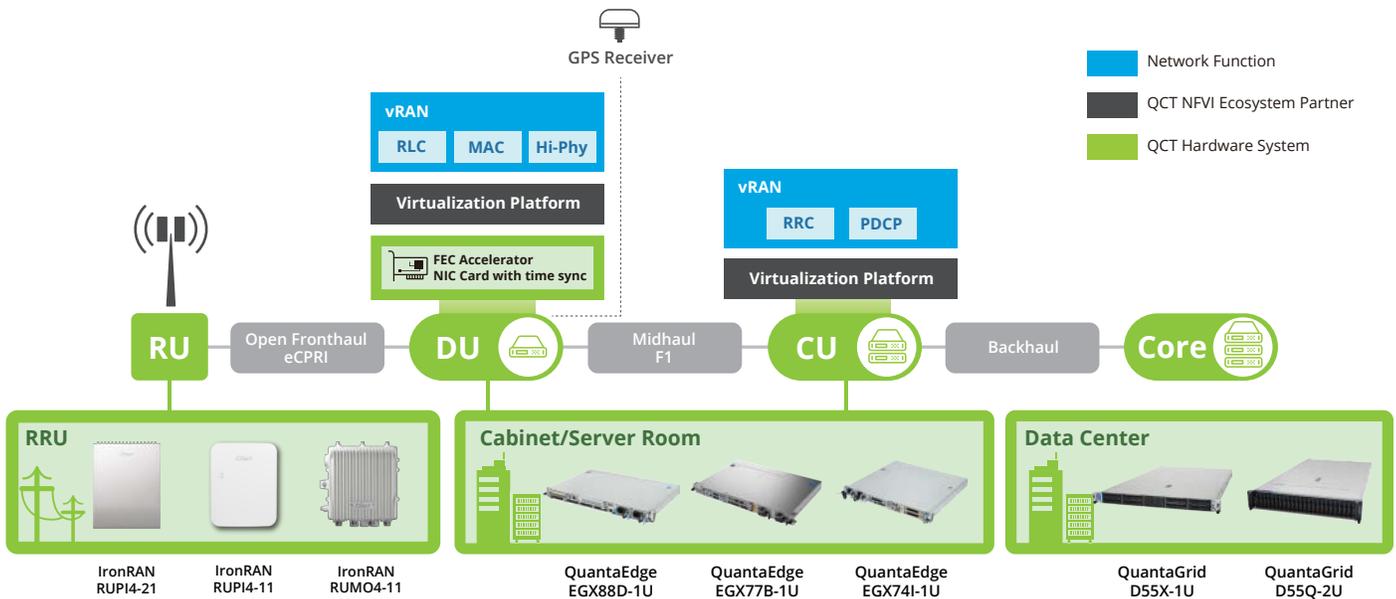
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CU/DU Server for Open RAN and Core Server for Data Center

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 precautionous



Community Involvement



Core Server

QuantaGrid D55X-1U

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



1U 2 32



Processor	(2) Intel® Xeon® 6 processors (6700E-Series, 6700P-Series, 6500P-Series), up to TDP 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
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) 440 x (H) 43.2 x (D) 780mm

QuantaGrid D55Q-2U

The QuantaGrid D55Q-2U is a robust server equipped with dual Intel® Xeon® 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.



2U 2 32

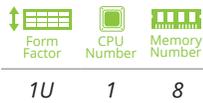


Processor	(2) Intel® Xeon® 6 processors (6700E-Series, 6700P-Series, 6500P-Series), up to TDP 350W
Memory	Up to 8 TB memory capacity with (32) DDR5 RDIMM up to 6400 MHz
Networking	(1) Dedicated 1GbE management port Support (2) OCP 3.0 SFF network cards
Storage	Option 1: (12) 3.5" hot-pluggable SATA/SAS HDDs or (12) 2.5" hot-plug NVMe drives Option 2: (24) 2.5" hot-pluggable NVMe/SATA/SAS drives
Expansion Slot	Upper Deck [General SKU] (4) PCIe 5.0 x8 FHHL slots + (2) 2.5" hot-pluggable NVMe SSDs [SW GPU SKU] (2) PCIe 5.0 x16 FHHL slots + (2) 2.5" hot-pluggable NVMe SSDs [DW GPU SKU] (2) PCIe 5.0 x16 FHFL slots Lower Deck Option 1: (2) PCIe 5.0 x16 HHHL slots + (1) PCIe 5.0 x8 HHHL slots Option 2: (2) PCIe 5.0 x16 FHHL slots Option 3: (1) PCIe 5.0 x8 HHHL slot Option 4: (1) PCIe 5.0 x16 HHHL slot + (1) PCIe 5.0 x8 HHHL slot <i>*For PCIe expansion, consider storage options; contact QCT for further details.</i>
Dimensions	(W) 447 x (H) 87.5 x (D) 780mm

CU/DU Server

QuantaEdge EGX88D-1U

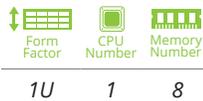
The QuantaEdge EGX88D-1U is a compact, efficient server designed for optimal performance. Its 300 mm chassis depth allows easy cable management and ample airflow. It features integrated vRAN acceleration, GNSS for precise timing, a 1+1 redundant AC/DC PSU for reliability, and front access for easy maintenance.



Processor	(1) Intel® Xeon® 6 SoC, up to TDP 325W
Memory	HCC: (4) DDR5 RDIMM up to 6400 MHz XCC: (8) DDR5 RDIMM up to 6400 MHz
Networking	Expansion SKU (16) 25GbE SFP28 (LoM) OCP3.0 D-SFF SKU (24) 25GbE SFP28 (LoM & Intel® Ethernet Network Adapter E830-XXVDA8F for OCP 3.0)
Storage	(2) SATA/NVMe M.2 2280/22110
Expansion Slot	Expansion SKU (1) FHHL PCIe 5.0 OCP3.0 D-SFF SKU (1) OCP 3.0 PCIe 5.0 for Intel® Ethernet Network Adapter E830-XXVDA8F for OCP 3.0
Dimensions	(W) 447.8 x (H) 42.8 x (D) 300.65mm (ear to rear wall)

QuantaEdge EGX77B-1U

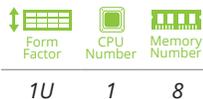
QuantaEdge EGX77B-1U is a 300mm extremely short depth edge server that features wide operation temperature and up to 12 LOM for advanced networking. Powered by 5th/4th Gen Intel® Xeon® Scalable processors, this model delivers enhanced performance with a built-in FEC and SyncE on board.



Processor	(1) 5th/4th Gen Intel® Xeon® 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	Config 1 (8) 25GbE w/ SyncE NCSI	Config 2 (4) 25GbE and (8) 10GbE w/ SyncE NCSI
Expansion Slot	(1) FHHL PCIe Gen5 x16	
Dimensions	(W) 447.8 x (H) 42.8 x (D) 300.65mm (ear to rear wall)	
Operating Temperature	-5°C to 55°C; -40°C to 65°C (optional)	

QuantaEdge EGX74I-1U

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



Processor	(1) 4th Gen Intel® Xeon® Scalable processor, up to 250W TDP	
Memory	(8) DDR5 RDIMM up to 6400 MHz	
Storage	Storage SKU (2) SATA/NVMe M.2 2280 (2) 2.5" U.2 SSDs	Expansion SKU (2) SATA/NVMe M.2 2280
Network Controller	(4) 25GbE SFP28	
Expansion Slot	Storage SKU (2) FH3/4L PCIe Gen5 x16	Expansion SKU (1) FHHL PCIe Gen5 x16 (2) FH3/4L PCIe Gen5 x16*
Form Factor	1U Rackmount	
Dimensions	(W) 447.8 x (H) 42.8 x (D) 400mm	
Operating Temperature	-5°C to 55°C; -40°C to 65°C (optional)	

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

Next-gen RRU

Indoor

IronRAN RUPI4-21

The IronRAN RUPI4-21 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 can be seamlessly integrated into public and private networks, making it an ideal choice for many applications.



Band	n78, n79, n48
Network	5G SA
3GPP Compliance	5G NR Release 16
MIMO	4T4R
Output Power	Maximum 4 x 250mW
Bandwidth	Up to 100MHz
Carrier Aggregation	Up to 2CC (2T2R)
Synchronization	IEEE 1588v2, SyncE
Function Split	O-RAN option 7-2a
Ingress Protection	IP30
Power Supply	DC +12V, 100~240V AC (AC adapter); POE++
Operating Environment	-5°C~ 45°C
Dimensions	(W) 220 x (H) 285 x (D) 65mm
Weight	< 3kg
Placement	Wall Mount/Ceiling Mount

IronRAN RUPI4-11

The IronRAN RUPI4-11 is a high-performance indoor Remote Radio Unit (RRU) with 4 x 250mW output power and 5G RU O-RAN compliance. It supports 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	n48
Network	5G SA
3GPP Compliance	5G NR Release 16
MIMO	4T4R
Output Power	Maximum 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	DC +12V, 100~240V AC (AC adapter); POE++
Operating Environment	-5°C~ 45°C
Dimensions	(W) 205 x (H) 260 x (D) 53mm
Placement	Wall Mount/Ceiling Mount

Outdoor

IronRAN RUMO4-11

The IronRAN RUMO4-11 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.



Band	n78, n79, n48
Network	5G SA
3GPP Compliance	5G NR Release 16
MIMO	4T4R
Output Power	Maximum 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	IP67
Power Supply	100~240V (AC Adapter), DC -48V
Operating Environment	-40°C ~ 55°C
Dimensions	(W) 220 x (H) 223 x (D) 88mm
Weight	~5.2kg
Placement	Wall Mount/Pole Mount



QCT Telco Solution



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Contact Us



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