



Part 1. Procure the Hardware

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ORAN 7.2 Reference Hardware Blueprint

Procure all the hardware listed in the following BOM.

ORAN 7.2 Reference Hardware Blueprint

ARC-OTA covers a wide range of use cases for developers in advanced wireless. Upon integration and qualification, these ORAN 7.2 split-aligned BOM hardware components are shared via the reference below.

Note

Unless a specific solution architecture differs based on use case, all components are required in a unit of 1.

5G Infra Component		Hardware Manifest	
Aerial gNB	Dell PowerEdge R750 Server + A100X		
	Gigabyte Edge E251-U70 Server x 1 with CPU Intel Xeon Gold 6240R, 2.4GHz, 24C48T, Memory 96GB DDR4, Storage 480GB LiteOn SSD x1. GPU GA100 x1, NIC x1 MLX CX6-DX MCX623106AE-CDAT		
CN	Dell PowerEdge R750 Server		
FrountHaul (FH) Switch only pick one	Dell PowerSwitch S5248F-ON		
	Fibrolan Falcon RX		
GrandMaster(GM)	QULSAR Qg 2 Multi-Sync Gateway		
O-RUs supported	ORU	Configuration	Freq Band
	Foxconn	4T4R	3.7GHz - 3.8GHz
	RPQN-7801E	-	(indoors)

	UE	Configuration
UEs supported	Sierra Wireless EM9191 NR 5G Modem	SU-MIMO 2DL, 1UL
	Quectel RM500Q-GL UE	SU-MIMO 2DL, 1UL (Reference 1 , Reference 2)
	5G USB Dongle	SU-MIMO 2DL, 1UL
	iPhone 14 Pro; iOS version 16.6.1; model number MPXV3HX/A	-
	OnePlus Nord 5G AC2003	-
	Samsung S22 SM-S9010	-
	Cables	Dell C2G 1m LC-LC 50/125 Duplex Multimode OM4 Fiber Cable Aqua 3ft Optical patch cable
NVIDIA MCP1600-C001E30N DAC Cable Ethernet 100GbE QSFP28 1m		
Beyondtech 5m (16ft) LC UPC to LC UPC Duplex OM3 Multimode PVC (OFNR) 2.0mm Fiber Optic Patch Cable		
CableCreation 3ft Cat5/Cat6 Ethernet Cables		
PDU	Tripp Lite 1.4kW Single-Phase Monitored PDU with LX Platform Interface, 120V Outlets (8 5-15R), 5-15P, 12ft Cord, 1U Rack-Mount, TAA	
Transceivers	Finisar SFP-to-RJ45 Transceiver	
	Intel Ethernet SFP+SR Optics	
	Dell SFP28-25G-SR Transceiver	
Ethernet Switch	Netgear ProSafe Plus JGS524E Rackmount	
iPerf Laptop	Connected to the switch (10G ethernet)	

ⓘ Important

The following components have reached end-of-life (EOL).

- Gigabyte Edge E251-U70 Server
- OnePlus Nord 5G AC2003 (will no longer be qualified by NVIDIA after June 2024)

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