

# R1220 Series Indoor O-RU

- 24 dBm 4T4R MIMO for 5G FR1
- O-RAN Split 7.2x Fronthaul Interface



WNC's R1220 series radio unit (RU) is designed to provide 5G NR Sub-6 GHz indoor coverage and optimal 5G network access at throughput speeds of over 1 Gbps to satisfy the needs of enterprise, industrial, and commercial venues. The R1220 flexible vRAN solution reduces costs and increases connection speeds via split 7.2x fronthaul network implementation. The RU can be mounted on walls, poles or ceilings, and utilizes internal/external 4T4R antennas to boost coverage and throughput.

## Open RAN Solution

- O-RAN fronthaul split 7.2x for indoor deployment
- 4T4R antennas boost coverage and throughput
- Complies with latest O-RAN and 3GPP specifications

## Cost Savings

- Processing requirements are dimensioned to total user capacity, which results in substantial cost savings
- Power consumption reduced to optimize total cost of ownership (TCO)

## Smart, Compact, and Light Form Factor

- Plug-n-play design ensures fast set up
- Can be mounted on ceilings, walls, and poles

# Technical Specifications

Model Name	R1220
Baseband	Intel® Arria® 10 FPGA
RF IC	ADI ADRV9025
5G NR	<ul style="list-style-type: none"><li>• 5G NR TDD 4T4R</li><li>• Supported bands: n77, n78, n79, n48</li><li>• Max 100 MHz channel bandwidth, 30 KHz sub-carrier spacing</li></ul>
Fronthaul Interface	O-RAN split option 7.2x compliant 10 GbE SFP+
Tx Power	Maximum 24 dBm per antenna
Antenna	Embedded/external
Synchronization	PTPv2 w/ G.8275.1
Holdover	1.5 µs over half hour
M-plane	O-RAN compliant Netconf protocol and Yang model
Power Supply	IEEE802.3bt PoE or DC 12V
Dimensions	10" x 10" x 2.7"
Enclosure	IP30 rated housing
Operating Temperature	0 °C to 40 °C
Installation	Ceiling/wall/pole mount

## SKU Comparisons

R1220-077L	N77 O-RU (3.7–4.0 GHz)
R1220-078L	N78 O-RU (3.3–3.6 GHz)
R1220-079L	N79 O-RU (4.6–4.9 GHz)
R1220-048L	N48 O-RU (3.55–3.7 GHz)



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