ABSIDE Networks

AI3DR™ T8 n79 Radio Unit (RU) AAU

AI3DR™ T8 n79 Radio Unit (RU) is a 5G coherent massive MIMO 3D steerable active array unit (AAU) leveraging Abside's RF-Retina™ technology and supporting the 5G waveform across all 600 MHz of the 5G NR n79 spectrum (4400 MHz through 5000 MHz) from a single unit / SKU.

The AI3DR™ array implements high-order fully digital beamforming which enables both massive MIMO 5G operation and beamforming with 3D beam steering, providing industry-leading uplink performance, throughput, and range.



Uplink & Downlink	5G Band n79 (NATO Band IV) 4400 MHz - 5000 MHz
Integrated Antenna	+11 dBi gain integrated antenna 8 Active Antenna Elements Dual Slant Polarization
Scalable RF	3 Active Beams/Cells @ 2T2R
TX Power	8 W Total RF Power (4 W per polarization)
5G NR Bandwidths	10, 20, 30, 40, 50, 60, 70, 80, 90, & 100 MHz (3GPP Rel.17)
Peak Data Rates	DL +1 Gbps UL +1 Gbps
Duplex Schema	5G NR Dynamic TDD
I/O's & RU Interface	1*MPO (100GigE Capable) eCPRI with SyncE option Split 8, O-RAN 7.2 Compliant Integrated GPS for asynchronous vRAN Power 20-33VDC
Environ-mentals	IP67 Design -40°C to +50°C
Size	~6.7" x ~6.7" x ~10.4" & ~11 lb

BYOD - Proven Compatibility with 5G COTS Modems
Best in class MAC layer for optimum bandwidth sharing

3 Simultaneous Active Cells @ 2T2R with Massive MIMO

Full Digital array with 3D steerability enables gNodeB to gNodeB IAB meshing and/or air-to-ground communications

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AI3DR-8T8AE-N79 TAA Compliant
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