ABSIDE Networks

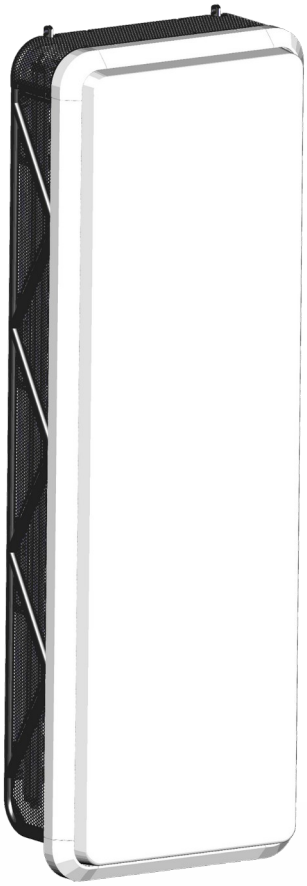
AI3DR™[384] n78 RU Very-Large-Array

Large Capacity @ Long Range

AI3DR™[384] using Abside's RF-Retina™ technology, a mature and proven architecture based on three generations of Abside's high altitude Google-X Loon products.

AI3DR™[384] enables ***vertical sectorization***, a substantial leap forward in radio unit capabilities and performance, both increasing capacity and extending coverage and thereby maximizing tower real estate.

AI3DR™[384] transmits eight (8) unique beams each with 2 layers. These sixteen (16) layers are available across the 200 MHz instantaneous bandwidth efficiently enabling more connections and throughput delivering on our brand promise of large capacity at long range.



5G Parameters	
Band	n78 (3300 MHz – 3800 MHz)
Antenna Elements	384
ERP	192 W
Antenna Gain	27.8 dBi
EIRP	81 dBm (single beam)
Elevation Tilt	Electric – Fully Adaptive
Digital Radio	64T64R
Beams / Layers	8 x 2T2R 7.2a 100 MHz
IBW	200 MHz
Fronthaul Interface	100GbE-LR4 (+1 optional redundant)

Physical / Electrical / Environmental	
Height*Width*Depth	2063*715*315 mm^3
Weight	120 kg
Power DC (Max)	2500 W

Standards	
TS 38 RU type	BS Type 1-O Category A
TS 38 Compliance	TS 38.104 (v16.19.0), TS 38.113 (v16.10.0) TS 38.141-1 (Not Applicable for BS Type) TS 38.141-2 (v16.18.0)
Security	TS 33.501 + O-RAN WG11
Spectrum	ITU via TS 38.104
Environmental	GR-1089, TS 38.113, IEC 61000-4-2, GR-3108

Standards	
O-RAN Compliance	O-RAN.WG4.CONF.0-R003-v09.00, O-RAN.WG4.IOT.0-R003-v10.00 O-RAN.WG11.Security-Requirements-Specification.O-R003-v07.00 O-RAN.WG11.Security-Protocols-Specification.O-R003-v07.00 O-RAN.WG11.Security-Test-Specifications.O-R003-v05.00

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AI3DR-M64T384AE-N78 TAA Compliant
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