

Table 1: Summary of Specifications of Product

3GPP bands	n258	Radio N258: 24.25 GHz – 27.50 GHz
Application	Mobile/FWA	
Deployment		Dense Urban or Urban outdoor, larger indoor & outdoor venues
Output power	EIRP	The stated EIRP values are the total EIRP without power tolerance included. The values includes radome loss. >61.6 dBm with 0dB tapering (CFG1) CFG1: EIRP/beam (tot 2 beams) > 58.6 dBm using 1/1 PAAM CFG2: EIRP/beam (tot 4 beams) > 52.6 dBm using ½ PAAM CFG5: EIRP/beam (tot 8 beams) > 46.6 dBm using ¼ PAAM >60.1 dBm with 18dB tapering (CFG1) CFG1: EIRP/beam (tot 2 beams) > 57.1 dBm with 18dB tapering using 1/1 PAAM CFG2: EIRP/beam (tot 4 beams) > 51.1 dBm with 18dB tapering using ½ PAAM CFG5: EIRP/beam (tot 8 beams) > 45.1 dBm with 18dB tapering using ¼ PAAM EIRP values are specified with PAAM key components @ average junction temperature 100deg Celsius (Key components are: PLL/Mixer/FE)
No. of Beams		8
Bandwidth		Total 1600 MHz
Sector		120 degrees (three Sector, two sector Street or standalone)
Beam Width	Azimuth Elevation	+/- 60 degrees +/- 15 degrees
Weight		6 kg w/o fan, Convectional Cooling
Volume		7.7 liters
Avg. Power Cons.		150W < Avg Power < 210 W, depends on Configuration {CFG1, CFG2, CFG5} and traffic load / DL Duty Cycle.
Environmental	IP65	Temp. range: Typical (-40) – (+55) degrees Celsius, Graceful Radio performance degradation from +35 degree Celsius
MTBF		25 years

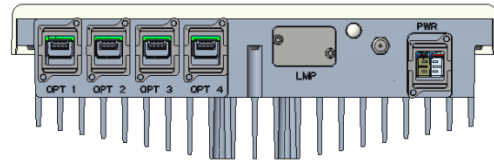
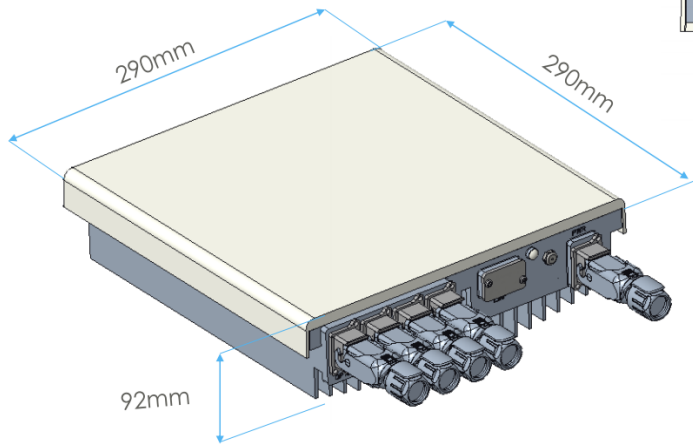
Interfaces	Physical	SFP+ or SFP28, electrical or optical
Interfaces	Logical	O-RAN Split 7.2
Cascading		Up-to three
Synchronization		The RU shall support (a) Mandatory: IEEE 1588v2 PTP, (b) Mandatory: IEEE 1588v2 PTP with PLFS used as synchronization input from SyncE (c) Optional: IEEE 1588v2 PTP with SyncE
Power Supply		110 V or 230 V AC, -48 V DC

Antenna Data from RS

PAAM-170		Antenna Gain	23.6 dBi @ 24.25GHz 24.6 dBi @ 25.5GHz 24.7 dBi @ 26.5GHz 24.3 dBi @ 27.5GHz The stated gain value is the peak beam gain. The stated gain includes radome loss <= 0.5dB The stated gain does not include antenna routing loss
PAAM-180		Antenna/ PAAM Losses	Movandi input Typical: Routing loss to antenna feed points 1.8dB - Incl BFIC channel split loss - Incl Mismatch loss (VSWR @ boresight and scan range edges) <-10dB active mismatch loss at boresight <-8dB active mismatch loss at +-60deg - Radome loss at boresight <= 0.5dB - Beam Straddle loss: TBD
PAAM-183		Linear Conducted Power at IC	8 dBm without tapering, 6.5dBm with tapering Average (per channel / per polarization) PAAM key components @ average junction temperature 100deg Celsius
PAAM-185		Linear Conducted Power at Element	3.2dBm without tapering and 1.7dBm without tapering Average (per channel / per polarization) PAAM key components @ average junction temperature 100deg Celsius
PAAM-187		Total Conducted Power over frequency	29.0dBm without tapering and 27.5dBm without tapering @ 24.25 GHz 29.0dBm without tapering and 27.5dBm without tapering @ 25.5 GHz 29.0dBm without tapering and 27.5dBm without tapering @ 26.5 GHz 29.0dBm without tapering and 27.5dBm without tapering @ 27.5 GHz Average per polarization (N=384)

3Rivers N258 outline summary

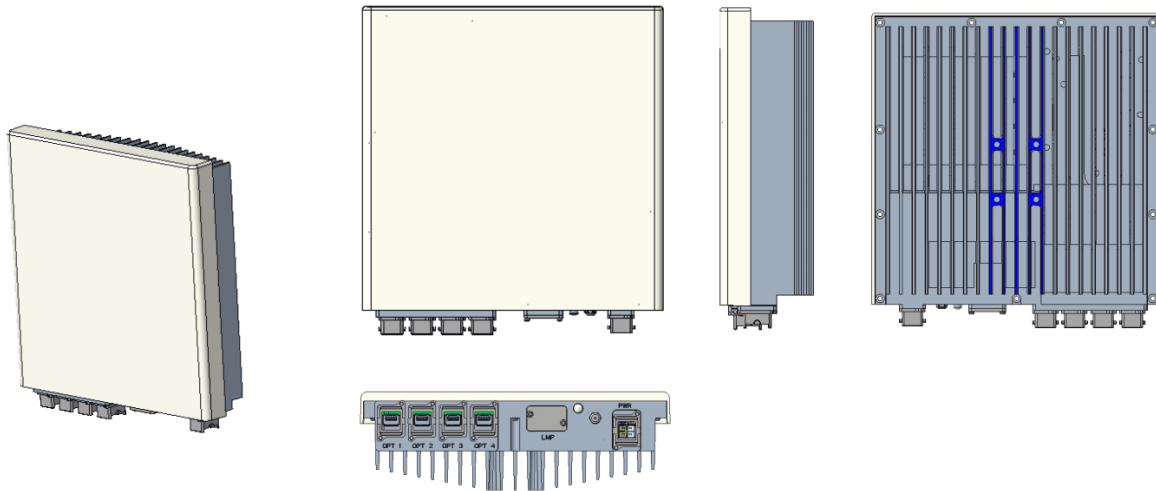
JABIL
ENTERPRISE & INFRASTRUCTURE

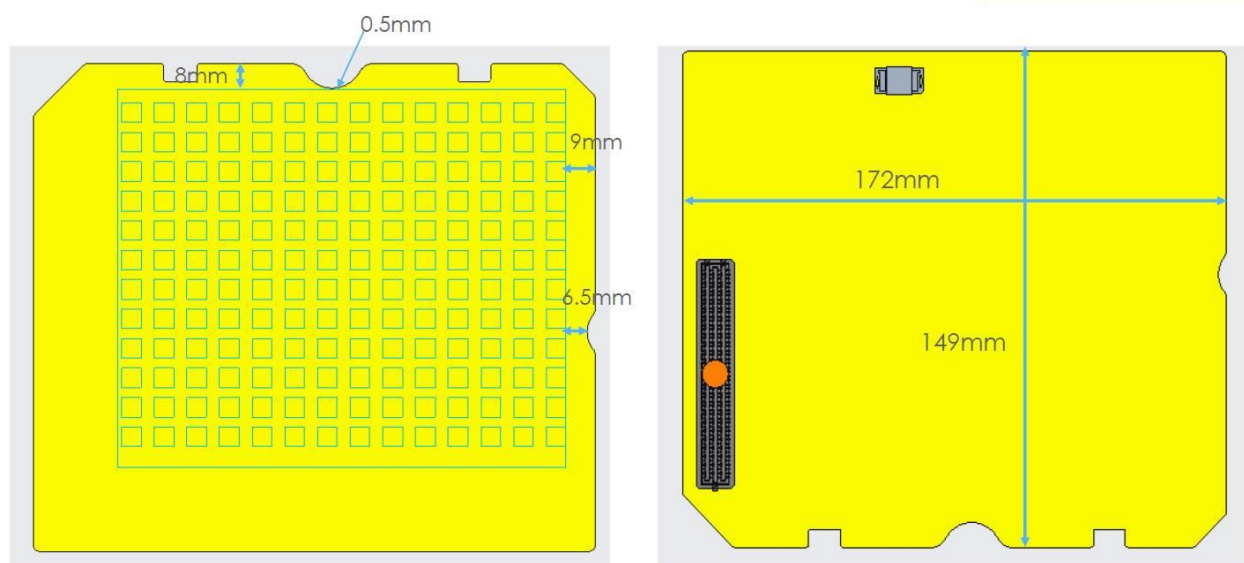


- Outline dimensions
H: 290 mm
W: 290 mm
D: 92mm
- Heatsink
material: Alsi12
Color: RAL 7004 SIGNAL GREY
Finish: Sand texture
- Radome
material: FR6020
Color: Cool Gray 1C

3Rivers N258 outline summary

JABIL
ENTERPRISE & INFRASTRUCTURE





3Rivers Unit Assembly Overview

