



Key Benefits

- autonomous base station
- Amarisoft radio software
- 2 x 0.5 W MIMO
- B38, B39, B42, B43, B48
- N38, N39, N48, N78
- other bands on demand
- TDD / FDD
- 1 Gbps PoE
- open-source OSS/BSS
- self-configuring
- self-healing
- ships worldwide
- 3-year managed service
- 1-year warranty

Starting from 2,950 € - simple and compact base station for public or private 4G/5G infrastructure

Rapid.Space Open Radio Station

Rapid.Space Open Radio Station - compact 4G/5G base station

Rapid.Space Open Radio Station (ORS) accelerates the deployment of 4G or 5G for private and public networks.



Autonomous operation

Rapid.Space ORS can be configured as an autonomous base station combining RRU, BBU and core network into a single, compact enclosure. This setup is ideal for private converged networks, defence or rescue missions.

Network densification

Rapid.Space ORS can be configured as a managed BBU or RRU connected to an existing core network through S1 interface. This setup is ideal for densification of existing 4G or 5G networks.

Single cable

Rapid.Space ORS uses a single Power over Ethernet (PoE) cable for power supply and TCP/IP backhaul. It supports synchronisation over GPS.

Globally available

Rapid.Space ORS can be shipped worldwide. Certification for EU (CE) is pending. Certification for USA (FCC), China and Japan is possible on demand.

Open source

Rapid.Space ORS is tested and certified for Ubuntu GNU/Linux operating system and SlapOS operation management (OM) system. ORS is preconfigured with Rapid.Space operation management (OM) service, which is also open source.

Step-by-Step documentation

Rapid.Space has documented the configuration and customization of ORS through open source procedures. Rapid.Space ORS is an ideal base to explore applications of 4G/5G vRAN, optimise their performance, develop new services or for research.

Modular design

Rapid.Space ORS hardware uses a modular design which supports multiple frequencies. Support of FDD and other frequencies is possible on demand.

Model	ORS - 39	ORS - 38	ORS - 42	ORS - 43	ORS - 0D
CPU	Intel i5				
RAM	4 GB				
SSD	64 GB				
Power	65W PoE				
Network	1 Gbps POE				
OS	GNU/Linux (open source)				
NMS	SlapOS (open source)				
vRAN stack	Amarisoft with built-in eNodeB • gNodeB • core network				
Dimension	170 x 102 x 240 mm				
Weight	2.4 kg				
Certifications	EN 301 489-52 • EN 301 489-19 • EN 62479 EN 62368-1 • EN 60950-22 • RoHS (pending)				
Radio power (mean)	2 x 0.5 W (upgradeable to 2 x 1.1W)				
Radio power (peak)	2 x 4.5 W		2 x 2.2 W		< 2 x 4.5 W
Mode	TDD	TDD	TDD	TDD	TDD or FDD
LTE Bands (TDD)	B39	B38	B42	B43, B48	< 6 GHz
NR Brands (TDD)	N39	N38	N78, N77	N48, N78	< 6 GHz

Amarisoft license

Rapid.Space ORS includes a license for Amarisoft 4G stack. It is a plug-and-play device. Further licensing options are available: 5G radio license, licensed source, etc.

Security

Rapid.Space zero-knowledge technology means that no passwords or credentials are shared between the ORS and Rapid.Space itself. Rapid.Space is suitable for sensitive applications (defence, government, research) which require full reversibility and operation without Internet access.



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