DronePOD

Key Benefits

- Autonomous drone
- Autonomous base station
- Amarisoft radio software
- 30 min. battery autonomy
- 24/7 tethered option
- Intel / AMD / ARM CPU
- 2 x 1 W MIMO TDD or FDD
- 3GPP Release 18
- B28/38/39/40/41/42/43/48
- N28/38/39/40/41/48/77/78/79
- Other bands on demand
- 7.9 kg and 32 W
- Foldable in cabin luggage
- Open Source OSS/BSS
- Open Source PaaS
- Open Source CDN
- Open Source PLC
- Instant messaging
- PTT / video streaming
- Tactical edge / BMS
- IEC 61131-3
- OPC-UA TSN
- Plug-and-play
- Self-configuring
- Self-healing
- Global delivery
- 1-year warranty

Airborne 4G/5G base station and drive test

Rapid.Space DronePOD is an autonomous drone jointly developed with Innovadrone which provides instant 4G/5G connectivity in any area: rural, disaster, conflict, sea, etc. It can also automate drive tests.

Autonomous 3C network operation

The ORS carried by DronePOD runs as autonomous base station: RU, BBU, core, PTT, PLC, AI, instant messaging and video streaming are integrated in a single enclosure. It supports connected collaborative computing (3C) for defense or rescue missions.

Autonomous drive test

With the UE option, DronePOD can measure the spectrum, radio power and connectivity of existing 4G/5G infrastructure. Fully automated airborne drive test can be realised thanks to autonomous navigation algorithms deployed on DronePOD.

Battery powered or tethered

DronePOD can be powered by battery with 30 minutes autonomy and redundant radio backhaul. It can also support tethered operation as an option.

Globally available

DronePOD can be shipped worldwide and includes EU certification (CE). Certificates for the USA (FCC), China or Japan are possible on demand.

Open source tactical edge

Powered by Ubuntu GNU/Linux, SlapOS OSS/BSS, Galene PTT, Delta.Chat messaging, Theia PaaS, haproxy CDN, Beremiz PLC and Netframe digital workplace. All open source.

Cloud management, scalability, mass deployment, configuration etc.

By default, DronePOD configuration is provided from our cloud-based OSS/BSS. You can easily deploy hundreds of DronePOD and thousands of UE. Scalability is no issue. Offline configuration without cloud is also possible.

©2026 Rapid.Space
Jean-Paul Smets 1 | 2

Use Cases

- Disaster recovery 4G/5G
- TV broadcast 5G network
- Tactical 5G edge
- Autonomous drive test
- Autonomous spectrum mapping

Building block for cost-efficient SimpleRAN infrastructure.

Rapid.Space

©Rapid.Space 2026

86 avenue de la République
75011 Paris
France
info@rapid.space

Printed in France
2026-Feb
All rights reserved

All other company, product, or service names may be trademarks or service marks of others and are the property of their respective owners. References in this publication to the companies products or services do not imply that the company intends to make these available in all countries in which it operates.

The customer is responsible for ensuring compliance with legal requirements. It is the responsibility of the customer to seek the advice of competent legal counsel as to the identification and interpretation of relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may have to take to comply with these laws.

Please recycle

Local cloud infrastructure

For sensitive applications, it is possible to deploy the OSS/BSS locally. You can then manage multiple DronePOD without any connection to an external network.

3GPP KPI calculation

Collection of eNb/gNb counters and 3GPP KPI calculation are provided by Wendelin RAN technology built into Rapid.Space OSS/BSS.

Simultaneous UE connections

In 5G mode, DronePOD can support more than 512 active UEs on Intel Core Ultra 7 or AMD CPU and hundreds on Intel x7425E with simultaneous traffic.

Step-by-step DronePOD documentation (open source)

Fully documented configuration and customisation is ideal to explore 4G/5G vRAN applications, optimise performance, develop new services or do research.

Modular design

DronePOD hardware uses a modular design which supports eight standard frequencies (38/39/40/42/43/77/78/79) and other frequencies on demand (1/2/3/4/5/7/8/10/12/13/20/25/26/28/30/41/46/48/49).

Model	DPOD-39	DPOD-40	DPOD-38	DPOD-42	DPOD-43	DPOD-77	DPOD-79
CPU	Intel Atom x7425E (default variant) • Intel Core Ultra 7 165U (Pro variant)						
RAM	8 GB						
SSD	128 GB						
Power	PoE Type 3						
Backhaul	Redundant OFDM 2.4 GHz proprietary radio and 4G/5G self-backhaul						
OS	GNU/Linux (open source)						
OSS/BSS	SlapOS (open source)						
Edge computing	Galene (PTT) • Delta.Chat (Messaging) • Theia (PaaS) • Traffic Server (CDN) • Netframe (Workspace) • Beremiz (PLC)						
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						
Radio power	2 x 1 W (max)						
Mode	TDD	TDD	TDD	TDD	TDD	TDD	TDD
LTE Bands (TDD)	B39	B40	B38, B41	B42, B48	B43, B48		
NR Brands (TDD)	N39	N40	N38, N41	N48, N78	N48, N78	N77	N79
Maximum bandwidth	50 MHz (AD variant) • 100 MHz (GC variant)						

Amarisoft license

The DronePOD includes Amarisoft 4G/5G stack licence at no extra cost.

"Zero-Knowledge" security

No credentials are shared between the DronePOD and Rapid.Space - ideal for sensitive applications that require full reversibility and offline operation.

SDK option

DronePOD "SDK" model includes root access and CLI configuration of Amarisoft without cloud.