



## Key Benefits

- plug-and-play BBU
- Amarisoft eNodeB/gNodeB
- CPRI/eCPRI
- OpenRack v2/ESA
- Xeon / Epyc / Hygon
- open-source hardware
- open-source edge software
- built-in OSS/BSS
- self-configuring
- self-healing
- ships worldwide
- 3-year warranty
- Lifetime managed operation

Building blocks for cost-efficient SimpleRAN infrastructure.

## Rapid.Space BBU Series

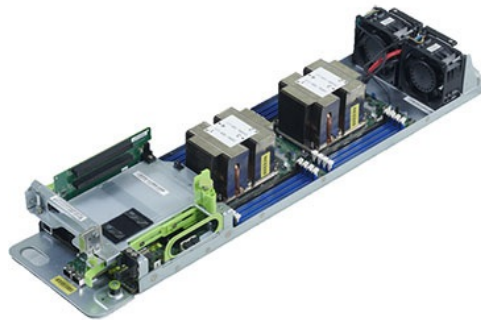
### Rapid.Space BBU - building block for 4G/5G vRAN

Rapid.Space BBUs are the "all-in-one" (DU/CU) building blocks to deploy SimpleRAN 4G/5G public or private radio access networks. Available models rely on Intel Xeon, AMD Epyc and Hygon C86 CPUs. They support 19 inch telecom rack (ESA) and cloud native OpenRack v2 (ORv2) form factors.

Model	Format	CPU	RAM	CPRI	eCPRI
BBU-TCE	ORv2	2 x Xeon 6138	256 GB	8x 2.5 Gbps	2x 25 Gbps
BBU-ACE	ESA	3 x Xeon 5320T	384 GB	12x 2.5 Gbps	6x 25 Gbps
BBU-CCE	ORv2	1 x Epyc 7003	512 GB	N/A	2x 100 Gbps
BBU-HC	ESA	1 x Hygon C86 3185	16 GB	4x 2.5 Gbps	
BBU-HE	ESA	1 x Hygon C86 3185	16 GB		2x 25 Gbps

### Globally available

Rapid.Space BBUs can be shipped worldwide. They are certified for EU (CE), USA (FCC), China and Japan.



BBU-TCE



BBU-ACE

### Available now

Model	Availability	Performance (to be confirmed)
BBU-TCE	now	3x NR (4T4R 100 MHz) + 6x LTE (2T2R 20 MHz)
BBU-ACE	Q2 2022	6x NR (4T4R 100 MHz) + 12x LTE (2T2R 20 MHz)
BBU-CCE	Q4 2022	6x NR (4T4R 100 MHz) + 12x LTE (2T2R 20 MHz)
BBU-HC	Q3 2022	1x NR (4T4R 100 MHz) + 1x LTE (2T2R 20 MHz)
BBU-HE	Q3 2022	1x NR (4T4R 100 MHz) + 1x LTE (2T2R 20 MHz)

Rapid.Space BBUs' performance has been optimised with radio units (RU) from AW2S or Sunwave and with HFR M6424 TSN front-haul switch.

## Warranty

Rapid.Space server can be easily and remotely maintained with a smartphone and an OLinuXino or Raspberry Pi nano-PC. 3 year warranty covers return to shipper for repair/replacement.

## OSS/BSS

Rapid.Space BBUs are tested and certified for Debian GNU/Linux operating system. They support automated configuration and operation of Amarisoft eNodeB/gNodeB through Rapid.Space operation/business support system (OSS/BSS) deployed on premise or in the cloud.

A single Rapid.Space OSS/BSS can control thousands of Rapid.Space BBUs and automate complex configuration of Amarisoft eNodeB/gNodeB, such as carrier aggregation, macrocell clustering over multiple BBUs, multi-cell deployment with a single BBU, health monitoring, self-healing, self-reconfiguration, SIM provisioning, etc.

## Edge native

Rapid.Space BBUs are cloud native nodes that can run edge computing workloads for value added services: IoT buffering, HTTP acceleration, watermarking, local authentication, local core network, etc.

## Fully Open

Rapid.Space BBUs are built from hardware components designed by the Open Compute Project (OCP). All software, except Amarisoft, is open-source: operating system (Linux), operation/business support (SlapOS), networking (re6st) and backhaul routing (babel). The eNodeB/gNodeB source code can be licensed from Amarisoft. For full transparency, Rapid.Space has documented the configuration and customization of each individual BBU model through open source management procedures.

## Security

Rapid.Space zero-knowledge technology means that no passwords or credentials need to be shared between nodes or with Rapid.Space OSS/BSS. All passwords or credentials remain on-premise. Rapid.Space provides optional security services to detect logistic attacks and software threats.

Rapid.Space is suitable for sensitive applications (defense, government, research) which require full reversibility and operation without Internet access.



©Rapid.Space 2022

Rapid.Space  
10, Rue Greneta 75003 Paris France  
75003 Paris  
France  
info@rapid.space.com  
+33 (0) 6 29 02 44 25

Printed in France  
2022-Apr  
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.

