

Overview

This chapter will give you an overview about the RECS®|Box system, its functionality and basic usage.

Device types

The RECS®|Box system provides various types of devices, described below in more details:

- RECS®|Box Compute Unit (RCU)
 - long version with up to 18 baseboards, external power supply (RPU) needed. Codename: Arneb
 - short version with up to 6 baseboards, 2 integrated PSUs. Codename: Antares
- RECS®|Box Power Unit (RPU)
 - 10 integrated power supply units (PSU). Codename: Alasco

RCU

Arneb

Antares

RPU

Alasco

CPU Modules

COM Express Modules (x86)

The following **Intel** CPUs are available:

| CPU Type | RAM | Onboard Network |
|--|---------------------------|--------------------|
| Core i7 4th generation 4 x 2.4 / 3.4 GHz, 47 Watt TDP | max. 16 GB DDR3L 1600MT/s | 1 GbE ¹ |
| Core i5 4th generation 2 x 2.9 Ghz, 37 Watt TDP | max. 16 GB DDR3L 1600MT/s | 1 GbE ¹ |
| Core i3 4th generation 2 x 2.4 Ghz, 37 Watt TDP | max. 16 GB DDR3L 1600MT/s | 1 GbE ¹ |
| Celeron 2 x 2.2 Ghz, 37 Watt TDP | max. 16 GB DDR3L 1600MT/s | 1 GbE ¹ |
| Atom 4 x 1.91 Ghz, 10 Watt TDP | max. 8 GB DDR3L 1333 MT/s | 1 GbE ¹ |

The following **AMD** CPUs are available:

| CPU Type | RAM | Onboard Network |
|---|-----------------------------------|--------------------|
| Embedded R max. 2.3 Ghz, 35 Watt TDP | max. 16 GB DDR3 1600 MT/s | 1 GbE ¹ |
| Embedded G max. 4 x 2.4 Ghz, 25 Watt TDP | max. 8 GB DDR3L 1600 MT/s onboard | 1 GbE ¹ |

¹ Additionally a 1 GbE or 10 GbE compute network is available on the baseboard as described in [innetboard installation](#)

Apalis Modules (ARM)

The following Modules built according to the **Apalis-standard** are available:

| Manufacturer | CPU Type | CPU Name | GPU | RAM | Onboard Network |
|--------------|----------------|---|------------------------------|--------------------------------|-----------------|
| Toradex | ARM Cortex-A9 | Nvidia Tegra 3 4 x 1.3 Ghz, 6 Watt TDP | 520 MHz | max. 2 GB DDR3 1600 MT/s | 1 GbE |
| Christmann | ARM Cortex-A15 | Samsung Exynos 5250 2 x 1.7 Ghz, 20 Watt TDP | ARM Mali-T604MP4; 533 MHz | 4 GB DDR3 | 2 x 1 GbE |

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