

# 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<br>4 x 2.4 / 3.4 GHz, 47 Watt TDP | max. 16 GB DDR3L 1600MT/s | 1 GbE <sup>1</sup> |
| Core i5 4th generation<br>2 x 2.9 Ghz, 37 Watt TDP       | max. 16 GB DDR3L 1600MT/s | 1 GbE <sup>1</sup> |
| Core i3 4th generation<br>2 x 2.4 Ghz, 37 Watt TDP       | max. 16 GB DDR3L 1600MT/s | 1 GbE <sup>1</sup> |
| Celeron<br>2 x 2.2 Ghz, 37 Watt TDP                      | max. 16 GB DDR3L 1600MT/s | 1 GbE <sup>1</sup> |
| Atom<br>4 x 1.91 Ghz, 10 Watt TDP                        | max. 8 GB DDR3L 1333 MT/s | 1 GbE <sup>1</sup> |

The following **AMD** CPUs are available:

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

<sup>1</sup> 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<br>4 x 1.3 Ghz, 6<br>Watt TDP          | 520 MHz                      | max. 2 GB<br>DDR3 1600<br>MT/s | 1 GbE           |
| Christmann   | ARM Cortex-A15 | Samsung Exynos<br>5250<br>2 x 1.7 Ghz, 20<br>Watt TDP | ARM Mali-T604MP4;<br>533 MHz | 4 GB DDR3                      | 2 x 1 GbE       |

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