

Introduction

Thank you for purchasing a Christmann RECS®|Box System.

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

CPU Type	RAM	Onboard Network
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 [netboard 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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