

# CEx7 A8040

## Datasheet

ARMADA A8040 based COM Express type 7 module | Rev. 1.0



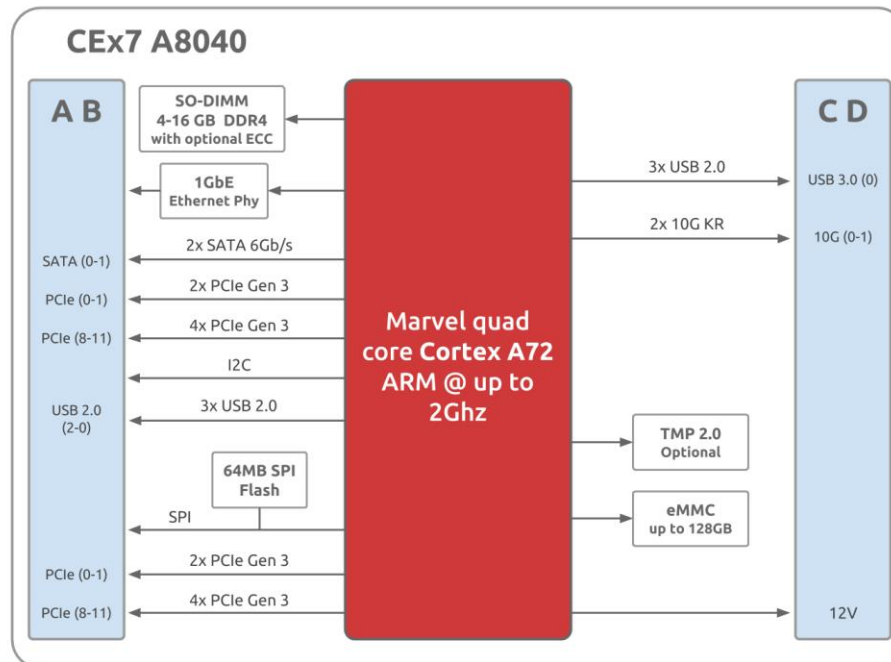
## Overview

SolidRun's [CEx7 A8040 COM](#) (Computer-on-Module) based on the COM Express Type 7 standard form factor was developed with a focus around server class, hardware virtualization and networking solutions. The CEx7 A8040 will be offered in the Basic (125mm X 95mm) configuration, providing developers full flexibility.

## CEx7 A8040 Highlighted Features

- ✿ Based on Marvell's A8040 Quad Cortex A72 ARM processors
- ✿ COM Express type 7 (basic) form factor
- ✿ Up to 16GB DDR4 (64 bits wide)
- ✿ Full virtualization support
- ✿ Linux enterprise support
- ✿ Hardware acceleration security

## CEx7 A8040 Block Diagram



## System Specifications

| CEx7 A8040                           |  |
|--------------------------------------|--|
| <b>Processor</b>                     | Marvell ARMADA A8040 Quad core ARM Cortex A72 (Up to 2Ghz)   |
| <b>Memory and Storage</b>            | Up to 16GB DDR4 (64 bit)<br>eMMC (optional, up to 128GB)<br>64MB SPI memory  |
| <b>Connectivity &amp; Interfaces</b> | 2 x XFI/RXAUI/SGMII<br>1 x SGMII with built in phy<br>6 x PCIe Gen 3 (4 lane)<br>1 x USB 3.0<br>3 x USB 2.0<br>I2C<br>SPI bus<br>GPIOs<br>UART |
| <b>Security</b>                      | Optional TMP 2.0   |
| <b>OS</b>                            | Linux kernel 4.4x<br>Ubuntu 16.04  |
| <b>Power</b>                         | 12V  |
| <b>Temperature Range</b>             | Commercial, Industrial, Automotive   |
| <b>Dimensions (WxL)</b>              | 125mm X 95mm   |
| <b>Form Factor</b>                   | COM Express type 7 basic   |

## Available SKUs for CEx7 A8040

| SKU                     | Description                        |
|-------------------------|------------------------------------|
| SRM8040S64D16GE008V10C0 | CEx7 A8040 8GB eMMC 16GB DDR4 R1.0 |
| SRM8040S64D00GE008V10C0 | CEx7 A8040 8GB eMMC R1.0           |

## Safety Notice

- a. This device is to be used with Certified Power adaptor with output rated 12VDC, 1.5A. Power adapter must meet Limited power source (LPS) requirements.
- b. Power adapter must meet local safety standards and requirements based on product intended use.
- c. Power adapter must meet Operating environment conditions as specified above.

## Disposal

Follow local regulations regarding disposal of the product. Dispose of your product in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited.

Help us protect the environment- recycle!

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## Support

For technical support please visit:

Our Wiki – <http://wiki.solid-run.com/>

Our Forums - <http://forum.solid-run.com/>

For direct support please contact us at: [support@solid-run.com](mailto:support@solid-run.com)

## Documentation

Additional documentation available at:

<https://wiki.solid-run.com/doku.php?id=products:a8040:documents>