![SolidRun logo]
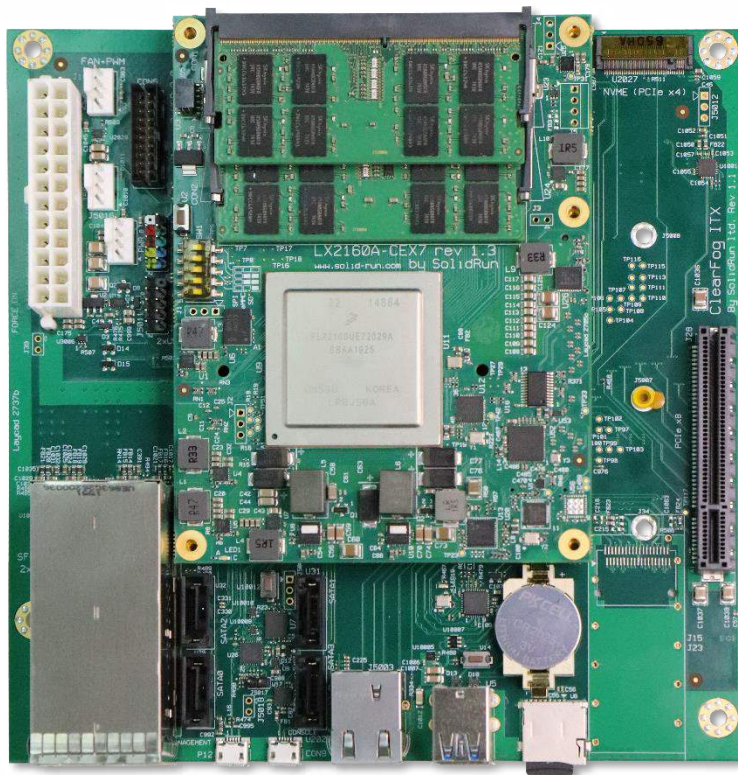
HoneyComb
Powered by **SolidRun**

HoneyComb LX2K Datasheet

NXP Layerscape LX2160A based Arm Workstation

Embedded Edge Computing

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Overview

Introducing **HoneyComb LX2K** cutting-edge Arm workstation – designed for native Arm development and demanding computing and networking needs.

HoneyComb is based on NXP's Layscape 16 core LX2160A Arm Cortex A72 processor, and features 2 x SFP+ (10GbE each), dual channel DDR4 SO-DIMM RAM (up to 64GB), 3 x USB 3.0 and 3 x USB 2.0, 4 x SATA, 64GB on-board eMMC, M.2, PCIe x8 open slot (can support x16), and much more.

HoneyComb Highlighted Features

- NXP's Layerscape LX2160A 16-core Cortex Arm A72 (2GHz) processor

- Dual-channel DDR4 SO-DIMM (up to 64GB)

- 4 x SFP+ (10GbE each)

- Mini ITX form factor supporting easy mounting in a wide range of cases, enclosures and tower configurations
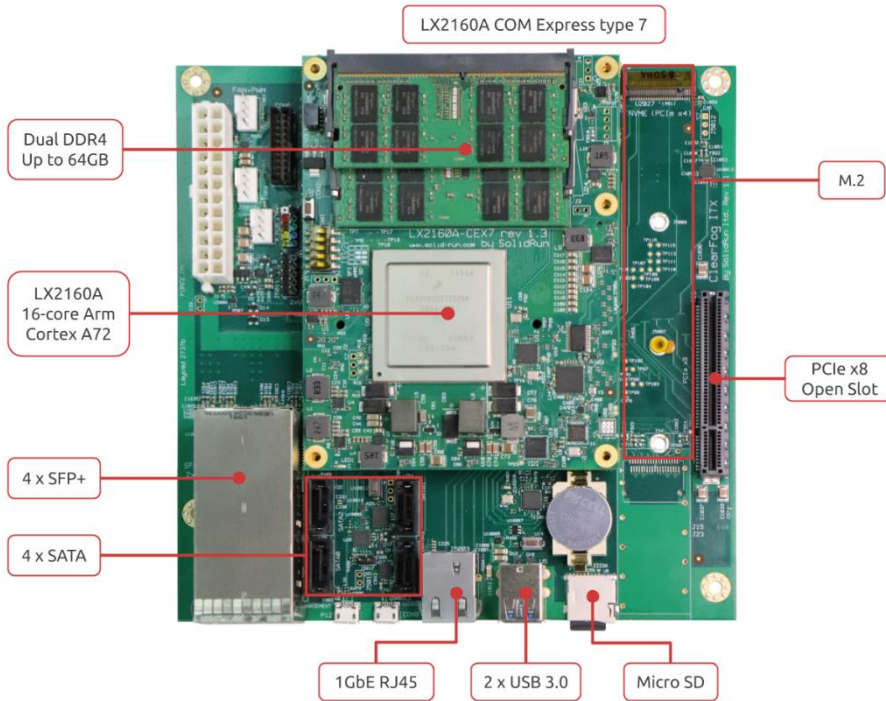
System Specifications

HoneyComb LX2K	
Processor	NXP LX2160A 16-core Cortex Arm A72 (up to 2Ghz)
Memory & Storage	Up to 64GB DDR4 SO-DIMM (dual channel) M.2 2240/2280 MicroSD 4 x SATA 3.0 eMMC
Connectivity & Interfaces	4 x SFP+ ports (2x2) 1 x 1GbE (RJ45) 3 x USB 2.0 3 x USB 3.0 1 x PCIe x8 (open slot)
I/O	MicroUSB for debug (UART over USB) USB to STM32 for remote management
OS	Linux kernel 4.14x Mainline Linux
Cooling	CPU air-cooled with heatsink + fan configuration
Power	ATX Standard
Environment	Ambient temp. (commercial): 0°C to 70°C CPU die temp. (commercial): 0°C to 105°C Ambient temp. (industrial): -40°C to 85°C CPU die temp. (industrial): -40°C to 105°C Humidity (non-condensing): 10% - 90%
Dimensions (WxL)	170mm X 170mm
Enclosure	Not included Supports mini ITX form factor enclosures

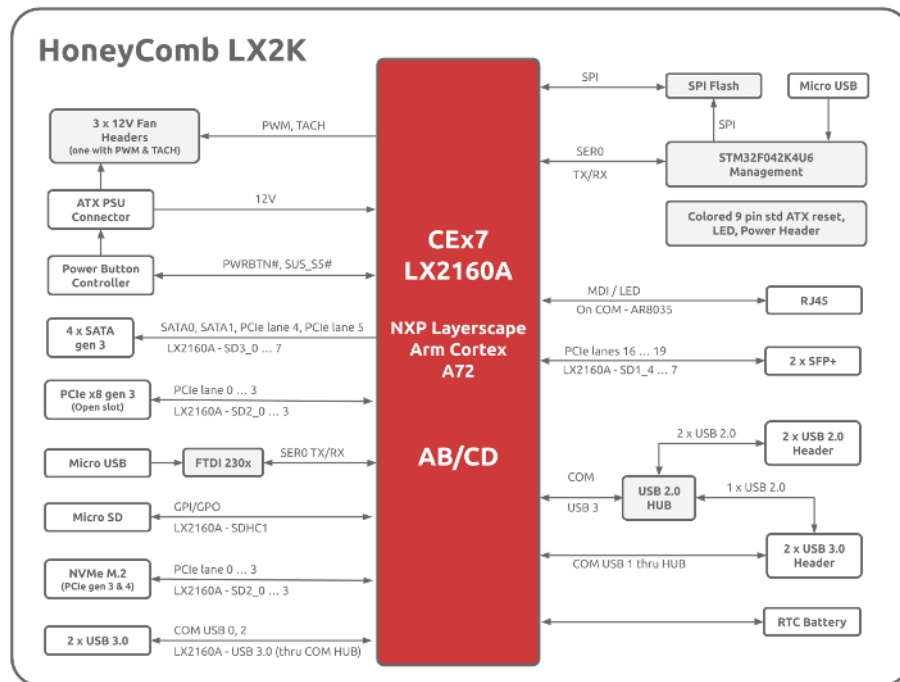# Available SKUs for HoneyComb LX2K

SKU	Description
SRLX216S00D00GE064H04CH	HoneyComb LX2K|64GB eMMC|Com. Temp|R04|Inc. Heatsink & Fan

(*) Different configurations available for MOQ

HoneyComb LX2K Layout

LX2160A COM Express type 7

Dual DDR4
Up to 64GB

M.2

LX2160A
16-core Arm
Cortex A72

PCIe x8
Open Slot

4 x SFP+

4 x SATA

1GbE RJ45

2 x USB 3.0

Micro SD

HoneyComb LX2K Block Diagram

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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For technical support please visit:

Our developer resources – https://developer.solid-run.com/

For direct support please contact us at: support@solid-run.com

Documentation

Additional documentation available at:
 https://developer.solid-run.com/products/honeycomb-lx2k/