

INDUSTRIAL PRODUCT DATASHEET

BeagleV® - Fire - RISC-V, FPGA fabric, 2GB 16GB, 1x Gigabit Ethernet, 1x M.2 Key E, 1x CSI, 1x microSD card slot, 2* 46 pins BeagleBone Header, 12x user LEDs

BeagleV®-Fire: RISC-V + FPGA single board computer with 2GB DDR4, 16GB eMMC, and rich connectivity options for Edging Computing and embedded development.

SKU

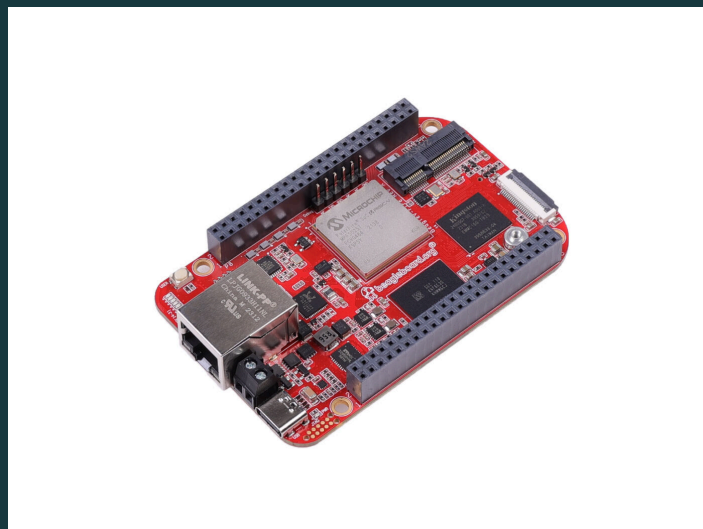
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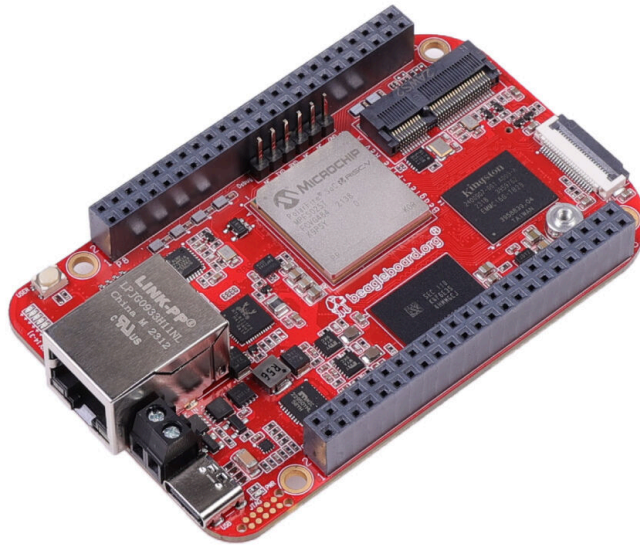
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PRICE

\$149.00(Excl. VAT)



Overview

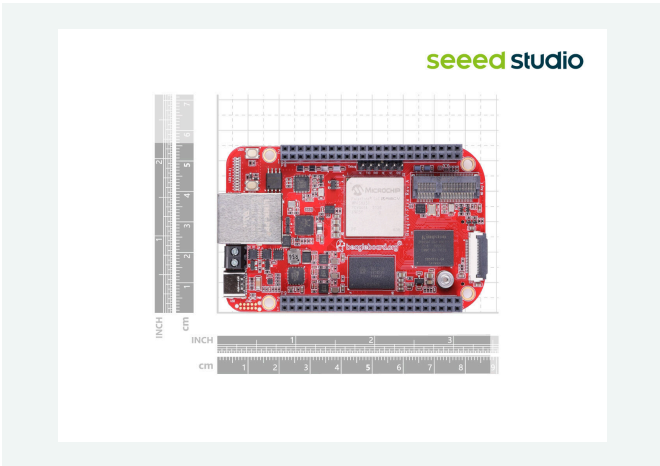
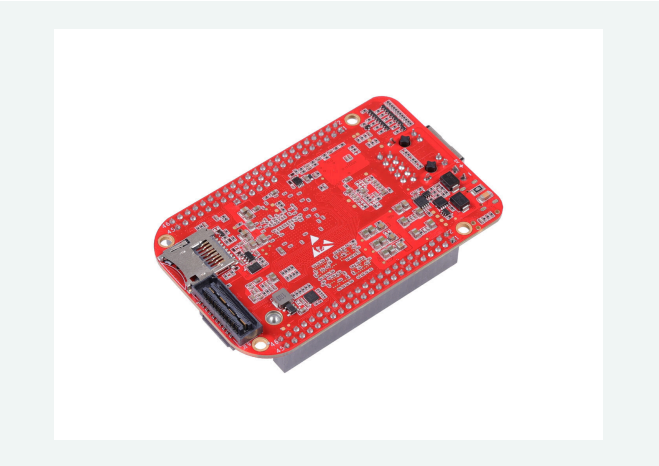
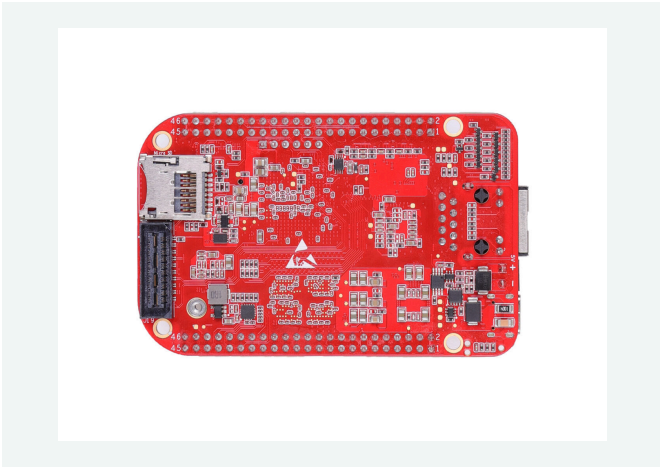
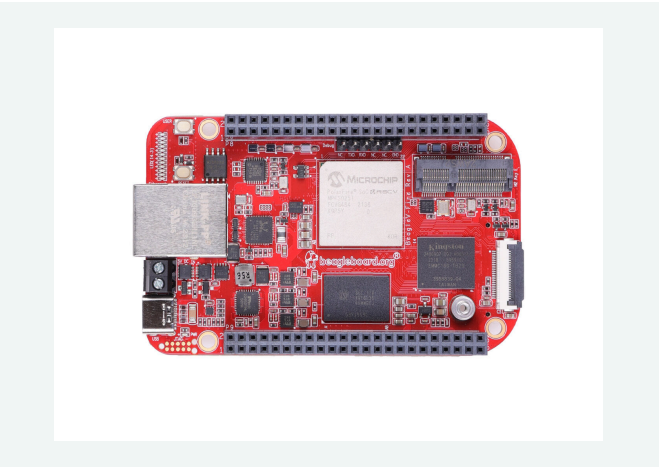


The BeagleV®-Fire is an open-source RISC-V and FPGA single board computer powered by the Microchip PolarFire® MPFS025T FCVG484E SoC, with 2GB LPDDR4 and Kingston 16GB eMMC storage. It provides versatile connectivity through Gigabit Ethernet, USB 2.0 Type-C, SYZYGY high-speed connector, M.2 Key E, CSI camera, microSD, and dual BeagleBone headers, targeting Edging Computing, Embedded Systems, RISC-V/FPGA Dev Kit, and Education applications.

Key Features

- **Open-source RISC-V and FPGA Single Board Computer:** Powered by Microchip's PolarFire® MPFS025T FCVG484E 5x core RISC-V SoC with FPGA fabric, operating at up to 667 MHz
- **Power-efficient and highly flexible:** Contain low-power FPGA fabric that is highly flexible and can accommodate custom instructions and peripherals
- **Onboard Storage:** Include 2GB LPDDR4 and Kingston 16GB eMMC on the board
- **Versatile Connectivity:** Offer a Gigabit Ethernet interface, an integrated Host / Device / Power Supply functions in one USB 2.0 Type-C port, and one SYZYGY High speed connector
- **Rich Extensions:** Provide 1x M.2 Key E supported wireless module, 1x CSI supported 4-lane camera, 1x microSD card slot, 2* 46 pins BeagleBone Header, 12x user LEDs, 1x Reset button, and 1x User button

Product Gallery



Specification

Parameters	Description
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Processor	Microchip's PolarFire® MPFS025T FCVG484E
	5x core RISC-V SoC with FPGA fabric: 4x Application core, 1x monitor/boot core
Memory	2GB, LPDDR4
Storage	Kingston 16GB eMMC
Wireless	1 x M.2 Key E, support 2.4GHz/5GHz WiFi module
LAN	1 x Gigabit Ethernet
USB Port	Connectivity: Host / Device Power Input: 5V
SD Card	1 x microSD card slot
CSI	1 x CSI connector (22 pins), support 4 lanes Camera
LEDs	12 x User LEDs
	1 x Power LED
Buttons	1 x User button
	1 x Reset button
Power	5V Screw terminal / USB C
GPIO	2*46 pins BeagleBone® Header
Debug	6 pins UART debug connector
	10 pins JTAG port
Cerfication	CE,FCC, RoHS, REACH
Other Connectors	1 x SYZYGY High speed connector, designed for: - High speed analog to digital converters - Oscilloscope type application
Working Temperature	0°C~70°C
Board Dimension	86.38*54.61*18.8mm
Gross Weight	106g
Net Weight	45.8g

Applications

- Edging Computing
- Embedded Systems
- RISC-V Dev Kit
- FPGA Dev Kit
- Education

Part List

BeagleV®-Fire Boards	x1
Quick start card	x1

Compliance & Logistics



HSCODE	8471504090
USHSCODE	8517180050
UPC	640265310997
EUHSCODE	8471707000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/BeagleV-Fire-p-5822.html>

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