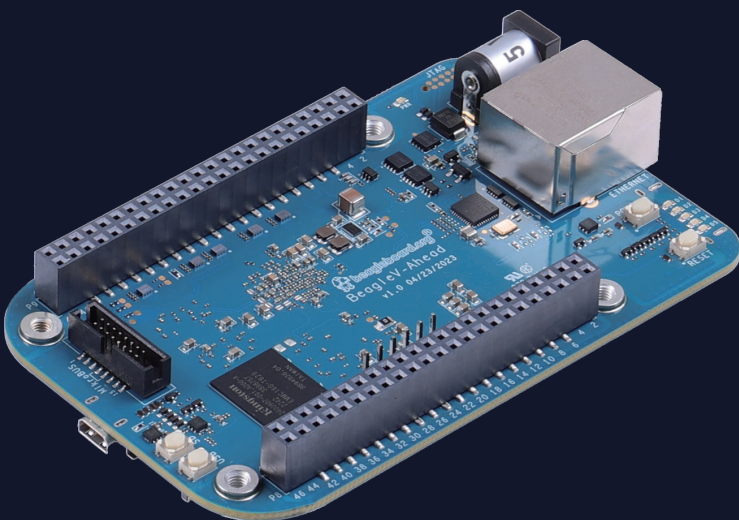


BeagleV® - Ahead

Join the RISC-V Revolution: Accelerate Your Development with Advanced BeagleV®-Ahead



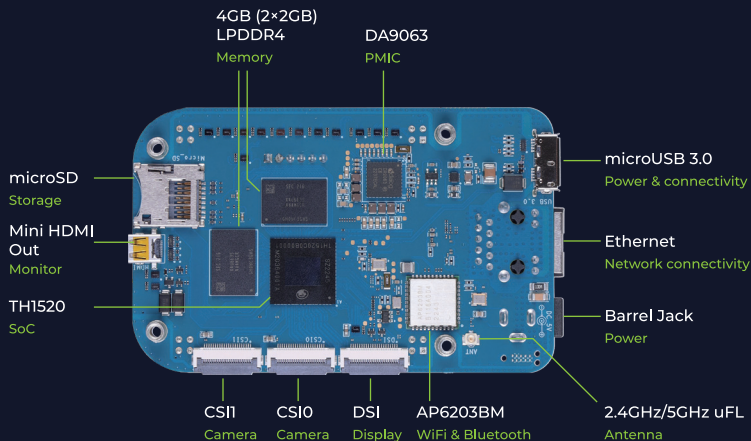
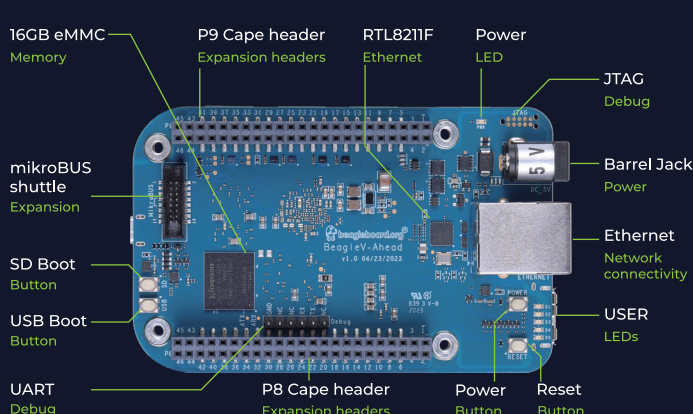
Features

- Most Advanced RISC-V Processor IP: Powered by T-Head TH1520 RISC-V quad-core Xuantie C910 processor clocked at up to 1.85GHz
- Support AI Acceleration: 4TOPS NPU @ INT8 1GHz for AI, support Tensorflow, ONNX, Caffe
- Rich Multimedia Interface: 2*CSI; 1*HDMI; 1*DSI
- Speed up PoC Process: MIKROE's mikroBUS™ uniform connection interface, enabling instant connection of 1000+ click boards to the main development board
- Multiple OS Support: Support Yocto, and Linux distribution such as Ubuntu and Fedora (in development)

Applications



Processor: **TH1520**, Quad-core **RISC-V 64GCV C910** up to **1.85GHz**



Feature	Description
CPU	TH1520, Quad-core RISC-V 64GCV C910 up to 1.85GHz
LAN	1 x Gigabit Ethernet
WiFi/BT	Integrated Wi-Fi 2.4G + BT 5.2
Multimedia	2 x CSI
	1 x DSI
	1 x micro HDMI
RAM	2 x 2GB LPDDR4X
eMMC	16GB
EEPROM	16KB
SD card	1 x Micro Slot
LEDs	1 x Power LED
	5 x User LEDs
Buttons	1 x Power Button
	1 x Reset Button
	1 x USB Boot
mikroBUS	mikroBUS shuttle
USB port	USB 3.0 Micro-B OTG
Power	5V Barrel Jack
GPIO	2 x 46pin BeagleBone® header
Debug	6 pins UART debug connector
	10-pin TAG-Connector JTAG Port
Certification	CE, FCC, RoHS, UKCA, REACH
Accessories	1 x MicroB USB cable
	1 x Antenna
Working Temperature	0 C ~ 60 C
Bare Board Dimension	96.5×60.5×21.1mm

Seed Studio Service for BeagleBone® Series:



Hardware Design & Prototype Building



Case Design & Moulding



Software Driver & Linux OS Development



Mass Production Service

Discuss your customization inquiry with us at [seeedstudio.com/odm](https://www.seeedstudio.com/odm)
Learn more about official BeagleBone® series at [beagleboard.org](https://www.beagleboard.org)