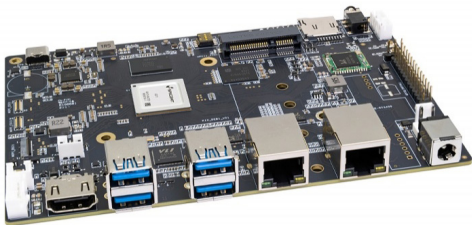# BANANA PI F3
RISC-V DEVELOPMENT BOARD

The Banana Pi F3 is an advanced single board computer that is particularly characterized by its versatility and performance. This model is based on the innovative RISC-V architecture and is powered by a SpacemiT K1 SoC with eight computing cores.

The BPI-F3 offers a wide range of connectivity options, including four USB 3.0 ports and options for expansion cards via PCIe, as well as an M.2 Key M slot. Two Gigabit Ethernet ports are available for network connectivity, supplemented by WiFi and Bluetooth. A special feature is the option of using a SIM card for mobile data connections, which makes the BPI-F3 an ideal choice for IoT projects. An HDMI 1.4 output is also available and a 26-pin pin header for external sensors and actuators further expands its functionality.

MAIN FEATURES

Processor	SpacemiT K1 8 core RISC-V chip
Working memory	4 GB LPDDR4
Memory	16G eMMC flash
SD card	MicroSD card slot (more than 256 MB)
Wireless	2.4G/5G Wi-Fi and Bluetooth 4.2
Ethernet	2x GbE Ethernet connection (supports PoE with additional PoE HAT)
HDMI	1x HDMI digital audio output (HDMI1.4, up to 1080p@60fps)
Audio	Loudspeaker, microphone and headphone connection
Camera	MIPI-CSI, Dual-shot support
USB	4x USB 3.0 Type-A HOST, 1x USB 2.0 Type-C OTG
PCIe	PCIe 2.1 2lane * 2. PCIe B 2lane connect M.2 KEY M (Support JMB582 expansion card to SATA) PCIe C 1lane connect MINI PCIe
GPIO	26-pin connector
LEDs	Power and status LED
Power supply	USB Type-C 12 V / 3A

FURTHER INFORMATION

Scope of delivery	BananaPi F3
Weight	200g
Dimensions	100 x 148 mm
Customs tariff number	84714900
EAN	4250236828138
Item number	BananaPi-F3-4GB