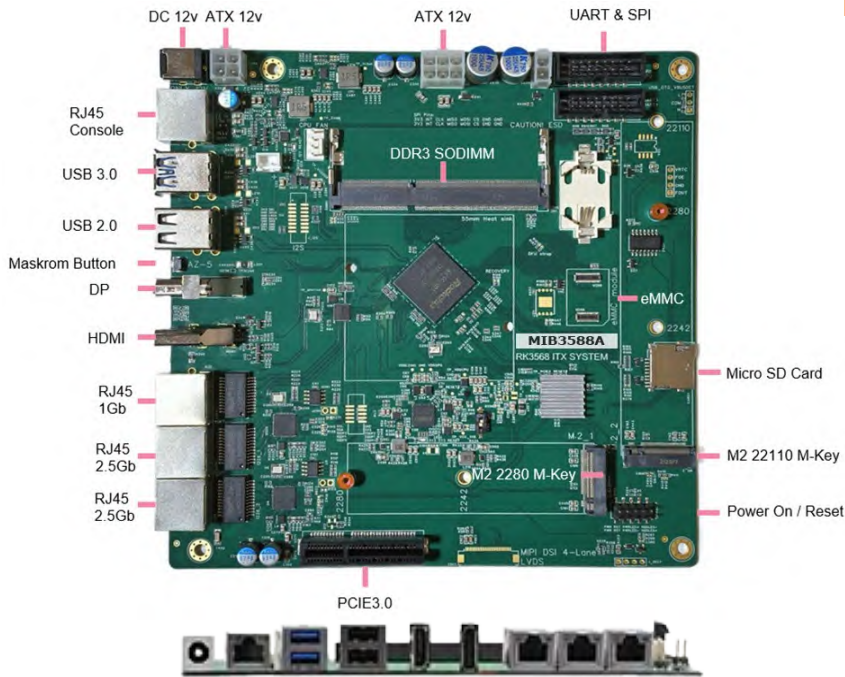


MIB3568A

ARM Cortex-A55 (Quad-Core) Mini-iTx

AIoT System-on-Chip with 3 networks (RJ45) interface with Rockchip® ARM Cortex A55 RK3568 Processor



Features:

- AIoT System-on-Chip Rockchip® Quad Cortex-A76, Quad Cortex-A55 CPUs, a Mali-G610 MP4 GPU, and a 6 TOPS NPU
- 8-core (4x Cortex-A76 @ 2.4GHz + 4x Cortex-A55)
- DDR3 SODIMM, 1.3/1.5v, 4GB -16GB, ECC Supported
- Storage eMMC (32~128GB), Micro SD (Max 256GB)
- Two M.2 type M, Support for WIFI/BlueTooth
- M2 M-key 2242/2280, M2 M-key 2242/2280/22110
- Network Support 1x GbE, 2x 2.5GbE
- 2x UART, 2x SPI, 2x Serial/RS232
- 5 USBs (2x USB3.0, 2x USB2.0, 1x OTG)
- Video output 1x eDP, 1x HDMI
- 4KP60 H.265/H.264/VP9 video decoder
- 1080P60 H.264/H.265 video encoder
- 1x Mini PCIe 3.0(2x signal) (Full size)
- Support Android 11.0, Debian13, Ubuntu 25.0



General

CPU Rockchip® ARM Cortex SoC RK3568 Cortex-A55 SoC (Quad-Core, Quad Threads) (2.0GHz)
 - 1TOPs NPU (Supporting INT8/INT16/FP16/BFP16 acceleration)
 - Mali-G52-2EE MP4 GPU for 4K Video Processing (OpenGL ES1.1/2.0/3.2, OpenCL2.0, Vulkan 1.1)

Chipset - Rockchip® RK809-5 PMU 3W

Memory DDR3 SODIMM, 1.3/1.5v, 4GB -16GB, ECC Supported (Max 16GB)

Storage - Embedded eMMC 32~128GB (Max 128GB)
 - Micro SD slots for memory up to 256GB
 - M.2 (Key-M, 2242/2280/22110)

Expansion Interface - PCIe 3.0 (x2 Dual lane) accept x16 cards
 - M.2 (Key-M, 2242/2280/22110)
 - M.2 (Key-M, 2242/2280) WIFI/Bluetooth

Watchdog timer - From Super I/O to drag RESETCON#
 - 256 segments (0~255 sec)

GPU

Decoding 4KP60 H.265/H.264/VP9 video decoder

Encoding 1080P60 H.264/H.265 video encoder

Display

Display Interface Support eDp/HDMI2.0
 - HDMI: max resolution up to 4096*2160@60Hz
 - eDP: max resolution up to 2560x1600@60Hz

I/O Interface

Network 3x Ethernet (2x 2.5GbE, 1x 1.0GbE) (RJ45)

Serial Com 2x RS232, 2x UART/SPI

USB (Total 4) 2x USB 3.0(One OTG), 2x USB 2.0

Rear I/O 4x USB, 1x HDMI, 1x DP, 3x RJ45(LAN), 1x RJ12(Serial), MaskRom button, Din-IN

Mechanical & Environment

Dimension 170x170 mm

Power Input 12 VDC (DIN-IN connector) ATX 12V-4, ATX12V-6

Temperature Operation: -10℃~60℃, Storage: -20℃~70℃

Supported O/S Android 11.0, Debian 13, Ubuntu 25.0 (For ARM)

Compliance CE, FCC, LVD, RoHS, REACH (Option)

Ordering Information

MIB3568A – Mini-ITX Rockchip ARM A55 (Quad Core), DDR3, MicroSD, M.2M, 3xEthernet, 4x USB

*Need to specify Size of memory & Storage:
eMMC/Ram/Wi-Fi card/SSD/Preinstall OS

*Specifications subject to change without notice, not responsible for typographical errors. Not include HDD or OS.

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet, visit www.IBT.ca