



Preliminary



Features

- MediaTek Genio 700 (MT8390) 2.2GHz or MediaTek Genio 510 (MT8370) 2.0GHz processor
- 1x HDMI (4K60) + 1x HDMI (FHD60)
- Onboard 4GB LPDDR4 with 4000MT/s
- Embedded I/O for COM, USB, HDMI, Ethernet
- Supports M.2 E-Key (2230) for WiFi6 2T2R + BT 5.2 connectivity
- Ruggedized and Fanless Design

Specifications

System Mainboard	IBR500 SBC
Processor	MediaTek Genio 700 (MT8390) : 2x A78 2.2GHz L2 256KB, 6x A55 2.0GHz L2 128KB, shared 2MB L3 cache MediaTek Genio 510 (MT8370) : 2x A78 2.0GHz L2 256KB, 4x A55 2.0GHz L2 128KB, shared 2MB L3 cache
Chipset	Integrated
System Memory	4GB LPDDR4 on board
Graphics	ARM Mali-G57 MC3, OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1 ARM Mali-G57 MC2, Vulkan 1.1, OpenGL ES 3.2, and OpenCL 2.2
LAN	1x RJ45 GbE LAN
Expansion Slots	1x M.2 E-Key (2230) w/ SDIO, UART (for Wireless)
I/O	Front I/O: 1x RS232 DB9 connector 1x RJ45 GbE LAN 1x HDMI (4K60) + 1x HDMI (4K30) 1x Micro USB2.0 (with OTG support) + 1x USB 3.1 Type-A 1x DC IN power jack EIAJ with screw lock Rear I/O: 2x Antenna holes Side I/O: 1x PWR On/Off button 1x Factory reset button 1x Audio Line-Out
Auto Control and Monitoring	Watchdog Timer: 256 Levels, 0~128 Secs
Power Requirement	12V DC-in
Construction	SGCC
Weight	0.5kg (1.1lbs)
Chassis Color	Black & Silver
Storage	64GB~128GB eMMC 5.1 Flash for O.S. and 8MB SPI NOR Flash for board information
Power Supply	60W
Mounting	Desktop or wall mounting (wall mount kit included)
Dimensions	155mm (W) x 110mm (D) x 35mm (H)
Operating Temperature	-10°C to 50°C (14°F~122°F)

Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operating: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class-B (TBD)

Ordering Information

ISR500-1	MediaTek Genio 700 / MT8390; 2x A78 2.2GHz L2 256KB, 6x A55 2.0GHz L2 128KB, shared 2MB L3 cache, 8GB LPDDR4, 64~128GB eMMC
ISR500-2	MediaTek Genio 510 / MT8370; 2x A78 2.2GHz L2 256KB, 4x A55 2.0GHz L2 128KB, shared 2MB L3 cache, 4GB LPDDR4, 64GB eMMC
60W power adaptor	60W (12V @5.0A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi / Bluetooth module & antenna kit M.2 Wifi/BT module: A024MDWIFI0045000P or A024MDWIFI0046000P Antenna kit: A055RFAS67H600000P+A055BTC0000010000P