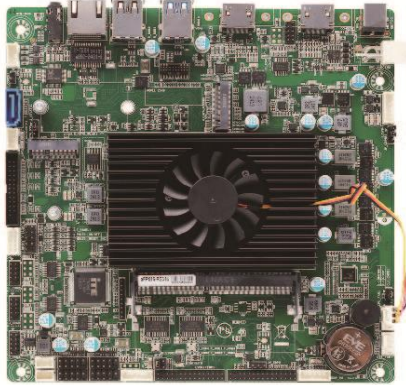


AMB-5ER0

Slim Mini-ITX with
AMD Ryzen™ Embedded R2000 Series Processor



Features

- AMD Ryzen R2000 series processor
- 1 x Gigabit Ethernet, 3 x USB 3.0, 9 x USB 2.0, 6 x COM
- 1 x M.2 with SSD support, WiFi + BT
- 2 x HDD/HDMI, 1 x LVDS/eDP, 1 x eDP, 1 x VGA
- Slim Mini-ITX form factor, DC 12V power supply

Specifications

System		I/O	
CPU	AMD Ryzen™ Embedded R2000 Series Processor R2314 / R2312	Ethernet	1 x Realtek 8111H GbE Ethernet Controller
Clock Speed	up to 2.1GHz, max 3.5GHz up to 2.7GHz, max 3.5GHz	USB	3 x USB3.0 5Gbps 8 x USB2.0 Note: One of USB2.0 for F_USB3 colay with M.2_KEYE_WLAN1.
Core/Tread	4/4, 2/4	Serials	4 x RS232, COM1-4 2 x RS232, 2 Wires, COM5-6
TDP	12-35W, 12-25W	Parallel	1
BIOS	AMI UEFI BIOS	Cash Drawer	1 x DC24V Note: Jumper optional support 12V.
OS	Windows 10/11 64bit, Linux	FAN	1 x CPU FAN 1 x System FAN
Memory Slot Type	1 x DDR4 SO-DIMM 3200 MT/s, up to 32 GB	PANEL	1 x PWR On +Reset +PWR_LED +HDD_LED
Channels	Single	AT/ATX Select	1 x default ATX mode
Storage	1 x SATA Gen3 6Gbps 1 x M.2 M-Key 2280, PCIE x4 Gen4, Support PCIE x4 NVMe SSD Note: BOM optional support SATA SSD.	CMOS Clear	1 x default normal
Expansion Slot	1 x M.2 E-Key 2230, PCIE+USB2.0, support WiFi+Bluetooth Note: USB2.0 signal colay with F_USB3.	GPIO	1 x 4 x GPI+ 4 x GPO, non-isolated 3.3V Note: BOM optional support 5V.
Display		Power	1 x Rear IO DC 12V 1 x Internal DC 12V
Graphics	Integrated AMD Radeon Graphics 6 / 3 Computing Units (CUs)	Others	fTPM2.0
HDMI2/VGA	1 x VGA max 1920x1200@60Hz. Note: BOM optional support HDMI, max 4096*2160@30Hz	Audio	
HDMI1	1 x HDMI, max 4096*2160@30Hz Note: HDMI1 use the same position with COM1.	Codec	Realtek Audio HDA codec
eDP1/LVDS	1 x eDP max 4096*2160@60Hz Note: BOM Optional support LVDS, max 1920x1200@60Hz.	Audio	1 x Line-Out + MIC, CTIA Note: BOM optional support OMTP.
eDP2	1 x eDP, max 4096*2160@60Hz	Amplifier	1 x L/R Amplifier, 3W4Ω/CH Note: BOM optional support 5W8Ω/CH.
Multi-Display	Quad	Mechanical & Environment	
		Dimension	170mm * 170mm, PCB: 1.6mm
		Temperature	Operation: 0°C~60°C, Storage: -25°C~75°C
		Humidity	5 ~ 95%, non-condensing

Dimension

Unit: mm / inch

