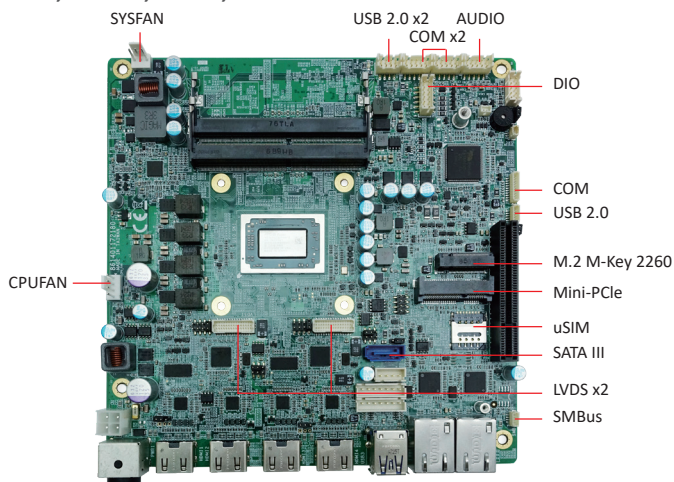


# AMIX-R2K0

AMD® Ryzen™ Embedded R2000 Series based Mini-ITX Low Profile Motherboard support AMD R2000 Series APU with 4 HDMI/2 LVDS, 1 SATA III, 3 COM, 5 USB, Dual GbE LAN.



## Key Features

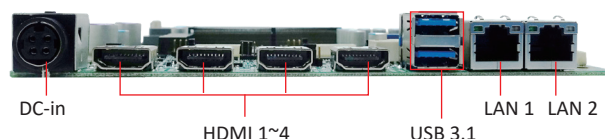
- AMD® Ryzen™ Embedded R1000 APU on board
- High Performance “Zen” Core CPU + “VEGA” Graphics GPU
- Four 4K@60 monitors support
- Multi-Display: 4x HDMI 2.0b, 1x eDP or 2x LVDS dual-channel
- 2x USB 3.1, 3x USB 2.0, 1x SATA III, 3x COM, 2x GbE LAN
- 1x PCI-E(x8), 1x Mini-PCIe w/ uSIM, 1x M.2 M-Key2260 (SSD)
- EuP/ErP 2013 Ready, Wide DC-IN 12V / 18V ~ 24V
- Support TPM1.2 (optional)

## Product Specification

System Processor/Chipset	
Processor	AMD® Ryzen™ Embedded R2000 series APU R2544 (3.35GHz, QC, 35-54W) R2514 (2.1GHz, QC, 12-35W) R2314 (2.1GHz, QC, 12-35W) R2312 (2.7GHz, DC, 12-25W)
Chipset	N/A
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR4 SO-DIMM; support ECC, up to 3200 MT/s
Capacity	Max. 32GB
Socket	2
Display	
Graphics	AMD® VEGA graphics up to 11 CU
Display interface	4 x HDMI v2.0b (2 x co-layout LVDS 2ch) 2 x LVDS (1 x co-layout eDP v1.4)
Multi-display	Up to four independent displays
Resolution	HDMI: 4096 x 2160 @ 60Hz (max) LVDS: 1920 x 1200 @ 60Hz (max) eDP: 3840 x 2160 @60Hz (max)
Ethernet	
Interface	10/100/1000 Mbps
Controller	Dual Intel® or i211AT PCI-E Gigabit LAN
Connector	2 x RJ45 (rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in (box-header)
CODEC	Realtek ALC662 5.1HD Audio Codec
Expansion Slot	
PCI-E	1 x PCI-E (x8)
Mini-PCIe	1 x Full size w/ micro SIM
M.2 (NGFF)	1 x M.2 M-Key 2260 (SSD)
I/O	
USB	2 x USB 3.1 (rear I/O) 3 x USB 2.0 (box-header)
COM	2 x RS-232 (box-header) 1 x RS-232/422/485 (box-header)
HDMI/VGA/DVI/DP	4 x HDMI 2.0b (rear I/O)
DIO	4-in / 4-out (box-header)
SMBus	1 x SMBus (box-header)
SATA	1 x SATA III port
Other	
TPM v1.2	Infineon SLB9660 (optional, LPC interface)
LVDS (eDP)	2 x Dual-channel 18/24-bit (box-header)
Power Requirement	
Power connector	DC-in Jack (4 pins lock) & ATX 2 x 2 pins
Power type	DC-in 12V / 18V ~ 24V

Watchdog Timer	
Interval	Programmable 1 ~ 255 sec/min
Output	System reset
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-40°F ~ 230°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Mini-ITX 170mm x 170mm (6.69" x 6.69")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
AMIX-R2K0-2544	Mini-ITX, Low Profile, AMD® Ryzen™ R2544, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V)
AMIX-R2K0-2514	Mini-ITX, Low Profile, AMD® Ryzen™ R2514, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V)
AMIX-R2K0-2314	Mini-ITX, Low Profile, AMD® Ryzen™ R2314, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V)
AMIX-R2K0-2312	Mini-ITX, Low Profile, AMD Ryzen™ R2312, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V)

## Accessories list

Part Number	Description
TBD	I/O Shield
VK00000700A9	SATA cable
VK00002600A9	SATA Power cable
TBD	Heatsink with FAN