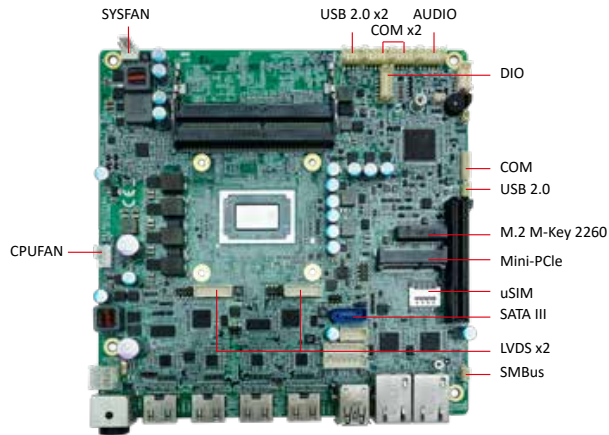


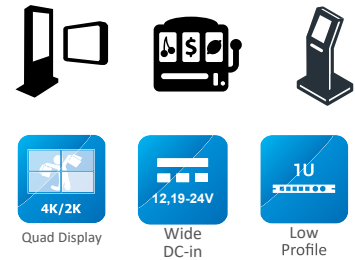
AMIX-V1K0

AMD® Ryzen™ Embedded V1000 Series APU based Mini-ITX Low Profile Motherboard with 4 HDMI/2 LVDS(eDP), SATA III, 3 COM, 5 USB, Dual Intel® GbE LAN.



Product Specification

System Processor/Chipset	
Processor	AMD® Ryzen™ Embedded V1000 series APU V1807B (3.35GHz/3.8GHz, QC, 11CU, 35-54W) V1756B (3.25GHz/3.6GHz, QC, 8CU, 35-54W) V1605B (2.0GHz/3.6GHz, QC, 8CU, 12-25W) V1202B (2.3GHz/3.2GHz, DC, 3CU, 12-25W)
Chipset	AMD® Ryzen™ Embedded V1000 APU integrated
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR4 SDRAM support ECC, up to 3200 MT/s
Capacity	Up to 32GB
Socket	2 x 260-pin SO-DIMM
Display	
Graphics	AMD® VEGA graphics up to 11 CU
Display interface	4 x HDMI v2.0b (2x co-layout LVDS 2ch) 2 x LVDS 2ch 18/24-bit (1x 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: 1920 x 1080 @ 60Hz (max)
Ethernet	
Interface	10/100/1000 Mbps
Controller	Intel® I211 GbE / Intel® I210 GbE (optional)
Connector	2 x RJ45 (rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek ALC662 5.1 HD Audio Codec
Expansion Slot	
PCI Express	1 x PCIe (x8)
Mini-PCIe	1 x Full size w/ micro-SIM
M.2 (NGFF)	1 x M-Key 2260 (SSD)
I/O	
Audio	1 x Line-in, Line-out, Mic-in (box-header)
COM	2 x RS-232 (box-header) 1 x RS-232/422/485 (box-header)
DIO	1 x 4-in / 4-out Digital I/O (box-header)
HDMI/VGA/DVI/DP/LVDS	4 x HDMI 2.0b (rear I/O) 2 x LVDS (box-header, 1 co-layout eDP, optional) 1 x eDP (box-header, optional)
SMBus	1 x SMBus (box-header)
SATA	1 x SATA III port support SATADOM
USB	2 x USB 3.1 (rear I/O) 3 x USB 2.0 (box-header)
Other	
TPM	Infineon SLB9660 TPM v1.2 or SLB9665 TPM v2.0 (optional)
Power Requirement	
Power connector	DC-in Jack (4 pins lock) & ATX 2 x 2 pins

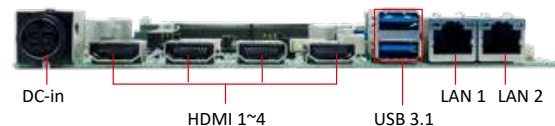


Key Features

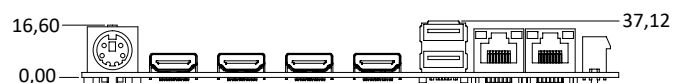
- AMD® Ryzen™ Embedded V1000 series APU onboard
- High Performance “Zen” Core CPU + “VEGA” Graphics GPU
- Four 4K@60 monitors support
- Multi-Display: 4 HDMI 2.0b, 2 LVDS dual-channel (1 co-layout eDP)
- 2 USB 3.1, 3 USB 2.0, 1 SATA III, 3 COM, 2 Intel® GbE LAN
- 1 PCIe (x8), 1 Mini-PCIe w/ micor-SIM, 1 M.2 M-Key 2260 (SSD)
- EuP/ErP 2013 Ready, DC-IN 12V or 19V ~ 24V
- Support TPM v1.2/v2.0 (optional)

Power type	DC-in 12V / 18V ~ 24V
Power mode	AT / ATX (by jumper selection)
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 ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Mini-ITX (Low Profile) 170mm x 170mm (6.69" x 6.69")

Rear I/O



Dimensions



Ordering Information

Part Number	Description
AMIX-V1K0-1807 (MOQ)	Mini-ITX,AMD V1807B 54W,4HDMI/2LVDS,SATA/3COM/5USB/2LAN,DC(12V,19V~24V),Low Profile,w/Cooler
AMIX-V1K0-1756 (MOQ)	Mini-ITX,AMD V1756B 54W,4HDMI/2LVDS,SATA/3COM/5USB/2LAN,DC(12V,19V~24V),Low Profile,w/Cooler
AMIX-V1K0-1605	Mini-ITX,AMD V1605B 25W,4HDMI/2LVDS,SATA/3COM/5USB/2LAN,DC(12V,19V~24V),Low Profile,w/Cooler
AMIX-V1K0-1202 (MOQ)	Mini-ITX,AMD V1202B 25W,4HDMI/2LVDS,SATA/3COM/5USB/2LAN,DC(12V,19V~24V),Low Profile,w/Cooler

Optional Accessories

Part Number	Description
TBD	I/O Shield
VK00000700A9	SATA cable
VK00002600A9	SATA Power cable
47380000101	Cooler w/FAN for AMD FP5

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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