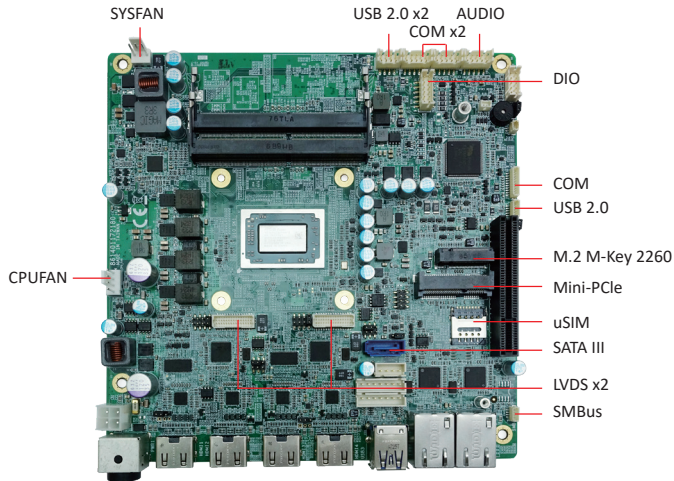
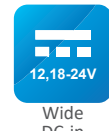
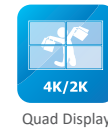


AMIX-V1K0

AMD® Ryzen™ Embedded V1000 Series based Mini-ITX Low Profile Motherboard support AMD V1000 Series APU with 4 HDMI/2 LVDS, 1 SATA III, 3 COM, 5 USB, Dual GbE LAN.



Key Features

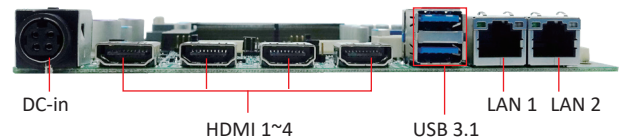
- AMD® Ryzen™ Embedded V1000 APU on board
- High Performance “Zen” Core CPU + “VEGA” Graphics GPU
- Four 4K@60 monitors support
- Multi-Display: 4x HDMI 2.0b, 1x eDP or 2x LVDS dual-channel
- 2x USB 3.1, 3x USB 2.0, 1x SATA III, 3x COM, 2x GbE LAN
- 1x PCI-E(x8), 1x Mini-PCIe w/ uSIM, 1x M.2 M-Key2260 (SSD)
- EuP/ErP 2013 Ready, Wide DC-IN 12V / 18V ~ 24V
- Support TPM1.2 (optional)

Product Specification

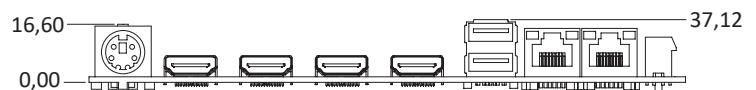
| System Processor/Chipset | |
|--------------------------|---|
| Processor | AMD® Ryzen™ Embedded V1000 series APU V1807 (3.35GHz, QC, 35-54W) V1756 (3.25GHz, QC, 35-54W) V1605 (2.0GHz, QC, 12-25W) V1202 (2.3GHz, DC, 12-25W) |
| Chipset | N/A |
| BIOS | AMI UEFI Flash ROM |
| Memory | |
| Technology | 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-V1K0-1807 | Mini-ITX, Low Profile, AMD® Ryzen™ V1807, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V) |
| AMIX-V1K0-1756 | Mini-ITX, Low Profile, AMD® Ryzen™ V1756, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V) |
| AMIX-V1K0-1605 | Mini-ITX, Low Profile, AMD® Ryzen™ V1605, 4HDMI/2LVDS, SATA/3COM/5USB/2LAN, DC(12V, 18V-24V) |
| AMIX-V1K0-1202 | Mini-ITX, Low Profile, AMD Ryzen™ V1202, 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 |