



### Features

- AMD Ryzen™ Embedded V1000 on board
- 2x DDR4 SO-DIMM, Max. 32GB
- 2x PCI-E Gigabit LAN
- 1x HDMI(2.0a), 1x DisplayPort (1.4), 1x eDP or 1x 24-bit dual channel LVDS
- 2x USB3.1(10Gbps), 2x USB3.1(5Gbps), 2x SATAIII, 6x COM
- 1x PCI-E(x8), 1x Mini PCI-E socket, 1x M.2 (M-key)

### Specifications

CPU Socket	AMD Ryzen™ Embedded V1000 on board
System Memory	DDR4 SO-DIMM, supports ECC 2x DDR4-2666, Max. 32GB
System Chipset	N/A
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x M.2 (support NVMe)
H/W Monitor	Yes
Expansion Slot	1x PCI-E(x8), 1x Mini PCI-E, 1x M.2 (M-key, type:2230)
VGA Controller	AMD Radeon™ Vega GPU integrated
VGA Memory	Shared Memory
Display Interface	1x HDMI (2.0a), 1x DisplayPort (1.4) 1x eDP or 1x 24-bit dual channel LVDS
LAN Controller	2x Intel® I211AT PCI-E Gigabit LAN
LAN Connector	2x RJ-45 connectors
I/O Chipset	Nuvoton NCT6116D 2x RS232/422/485 (Jumperless selection) 4x RS232
USB	2x USB 3.1 Gen2 (10Gbps) on board 2x USB 3.1 Gen1 (5Gbps) on board
Serial ATA	2x SATA III
Audio	Built-in HD audio w/ALC662 codec for 5.1 channel
Others	Digital I/O(4-in/4-out), iSMART, +12V~+24V DC-in
Dimensions	170mm x 170mm (6.7" x 6.7")
Max. Power Requirement	TBD
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

### Ordering Information

MI988F-1807 Art. No. 155% +	AMD Ryzen™ V1807B QC APU (3.35GHz/3.8GHz) on board Mini-ITX motherboard, with HDMI (2.0), DP, eDP or LVDS, dual Gigabit LAN, iSAMRT, +12V~+24V DC-in
MI988F-1756 Art. No. 155( . )	AMD Ryzen™ V1756B QC APU (3.25GHz/3.6GHz) on board Mini-ITX motherboard, with HDMI (2.0), DP, eDP or LVDS, dual Gigabit LAN, iSAMRT, +12V~+24V DC-in

### Dimensions and Drawing

