

Features

- Onboard 7th Gen Intel® Xeon® E3 / Core™ i7/i5/i3
- 2x DDR4 SO-DIMM, Max 32GB, ECC
- Intel® processor integrated graphics, supports DVI-D, HDMI 1.4, DisplayPort and 24-bit dual-channel LVDS
- 2x Intel® Gigabit LAN
- 6x USB 3.0, 4x USB 2.0, 4x SATA III, 4x COM
- 1x PCI-E(x16), 2x Mini PCI-E, 1x mSATA, 1x M.2
- Watchdog timer, Digital I/O, iAMT 11.6, TPM 2.0, vPro, iSMART

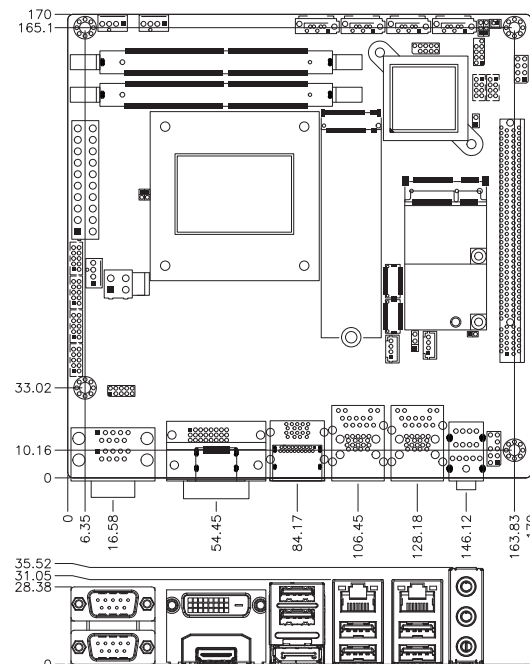
Specifications

CPU Socket	BGA1440 for 7th Gen Intel® Xeon® E3 / Core™ i7/i5/i3 processors, up to 3.7GHz
System Memory	2x DDR4 SO-DIMM, Max 32GB (support ECC by CPU SKUs)
System Chipset	MI992VF series: Intel® CM238 PCH MI992EF series: HM175 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x mSATA via Mini PCI-E (Thru SATA III and PCI-E) 1x M.2 slot (Thru SATA III and PCI-E)
H/W Monitor	Yes
Expansion Slot	1x PCI-E(x16), 2x Mini PCI-E, 1x M.2
VGA Controller	7th Gen Intel® Xeon® / Core™ i7/i5/i3 processor integrated
VGA Memory	Shared memory
Display Interface	Supports DVI-D, HDMI (1.4), DisplayPort and 24-bit dual-channel LVDS
LAN Controller	MI992VF series: Intel® I219LM Gigabit LAN PHY MI992EF series: Intel® I219V Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN (as 2nd LAN)
LAN Connector	2x RJ-45 on board
I/O Chipset	Fintek F81846AD-I
USB	6x USB 3.0 on board 4x USB 2.0 via pin-header
Serial ATA	MI992VF series: 4x SATA III MI992EF series: 2x SATA III
Audio	Intel® CM238 / HM175 PCH built-in HD audio + Realtek ALC892 codec
Others	Digital I/O (4-in/4-out), RAID, TPM (2.0), iAMT (11.6), iSMART
Dimensions	170mm x 170mm (6.7" x 6.7")
Max. Power Requirement	Intel® Core i7-7820EQ, 3.00GHz, w/ 2x 4GB DDR4-2133 +12V: 4.67A +5V: 1.39A +5VSB: 0.05A +3.3V: 0.35A
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

MI992VF-X3G	BGA1440 Intel® CM238/ Xeon® E3-1505M v6(3.0GHz) Mini-ITX Motherboard w/ DVI-D, HDMI (1.4), DisplayPort, LVDS, dual Gigabit LAN, RAID, iAMT (11.6), TPM (2.0), vPro, iSMART, CPU cooler on board
MI992VF-7820	BGA1440 Intel® CM238/ Core™ i7-7820EQ(3.0GHz) Mini-ITX Motherboard w/ DVI-D, HDMI (1.4), DisplayPort, LVDS, dual Gigabit LAN, RAID, iAMT (11.6), TPM (2.0), vPro, iSMART, CPU cooler on board
MI992VF-7440	BGA1440 Intel® CM238/ Core™ i5-7440EQ(2.9GHz) Mini-ITX Motherboard w/ DVI-D, HDMI (1.4), DisplayPort, LVDS, dual Gigabit LAN, RAID, iAMT (11.6), TPM (2.0), vPro, iSMART, CPU cooler on board
MI992EF-7100	BGA1440 Intel® HM175/ Core™ i3-7100E(2.9GHz) Mini-ITX Motherboard w/ DVI-D, HDMI (1.4), DisplayPort, LVDS, dual Gigabit LAN, RAID, EuP/ErP compliant, iSMART, CPU cooler on board

Dimensions and Drawing



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