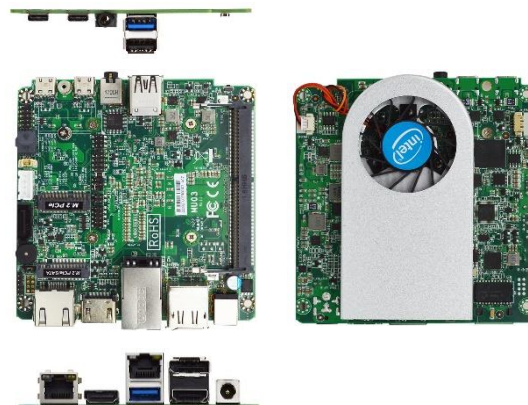


MU03 Series

Intel® Elkhart Lake Processor Motherboard with 32GB onboard eMMC, support 3 Independent Display outputs (2 HDMI, 1* DP)*

Features

1. Intel® Elkhart Lake SoC Processor
2. 1* DDR4 3200MHz SO-DIMM up to 32GB
3. 2* HDMI, 1* DP
4. 2* Intel i225V 2.5GbE
5. 1* COM, 2* USB3.1 (Gen.2), 3* USB2.0, 2* USB Type-C
6. 1* M.2 (M-key, 2260/2280), 1* M.2 (E-key, 2230), 1* SATAIII (6Gb/s)
7. Onboard 32GB eMMC option (MU03-03/MU03-07)
8. 12V DC-in



intel. FC CE RoHS COMPLIANT

Overview

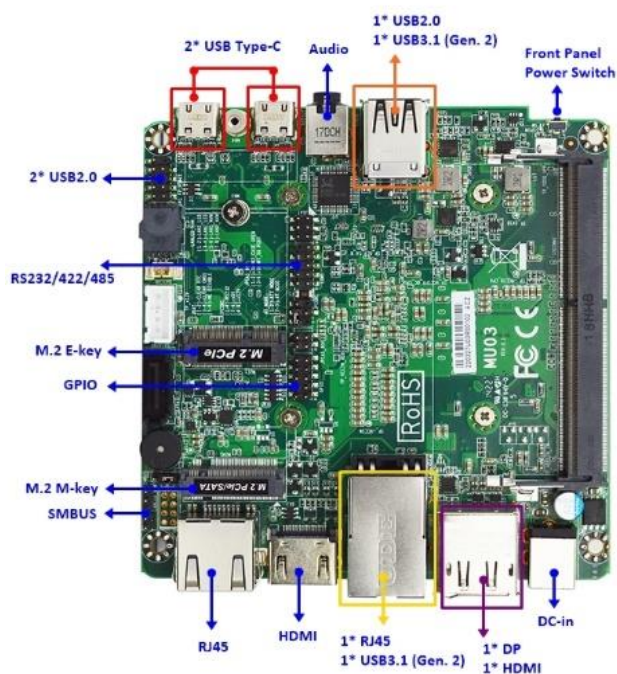
The JETWAY MU03 Series adopts the Intel® Elkhart Lake J6412 SoC processor. The board has one DDR4 3200MHz SODIMM up to 32GB memory. MU03 Series equipped with 2* HDMI and 1* DP for IoT applications. MU03 Series support TPM feature to secure customers' data.

In addition, it offers 2* USB Type-C, 2* USB3.1 (Gen.2) & 3* USB2.0 ports which can connect different peripherals, e.g. camera and sensor. It is flexible expansion via M.2 E-key and one RS232/422/485 port. For storage selection, MU03 Series provides 32GB eMMC onboard option, an internal M.2 M-key slot and SATAIII connector. In addition, MU03 Series board size is 101*101mm and is a SubCompact, powerful and energy efficient NUC form factor board with reliable performance.

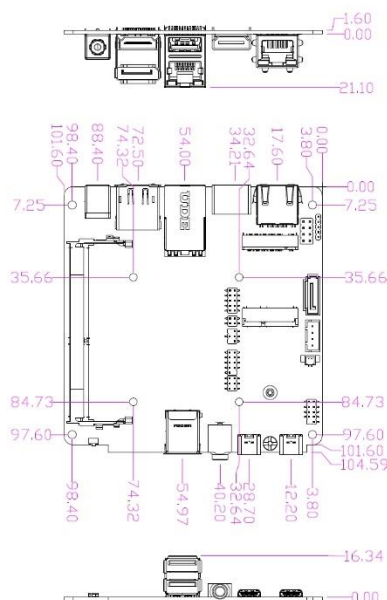
Application

Digital Signage / Cloud Applications / IoT / Industrial Automation

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model • MU03-00 (J6412) • MU03-03 (J6412, 32GB eMMC) • MU03-07 (J6412, 32GB eMMC, TPM2.0)	Form Factor NUC (101 * 101mm)
Processor System • Intel® Elkhart Lake J6412 SoC Processor • AMI Flash ROM BIOS	Memory 1* DDR4 3200MHz SO-DIMM up to 32GB
Storage • 1* SATAIII (6 Gb/s) • 1* M.2 M-key (2260/2280, PCIe Gen.3 x2/SATA interface) support NVME • 32GB eMMC onboard option (MU03-03/MU03-07)	Expansion 1* M.2 E-key (2230, PCIe Gen.3 x1/USB2.0 interface)
Ethernet 2* Intel i225V 2.5GbE	Graphics • Intel® HD Graphics, shared memory • 1* DP1.4 (Max Resolution: 4096x2160@60Hz) • 2* HDMI 2.0b (Max Resolution: 4096x2160@60Hz) • Support Triple Displays
Audio Dual channel HD audio: Realtek ALC888S	Watchdog Timer • From Super I/O to drag RESETCON# • 256 segments (10sec ~ 255min)
Internal I/O • 1* M.2 M-key (2260/2280) • 1* M.2 E-key (2230) • 2* USB2.0 • 1* SATAIII • 1* COM (RS232/422/485) • 1* 32GB eMMC option (If use Win 10 OS, we recommend the eMMC is use for OS boot up purpose.) • 1* Chassis intrusion • 1* GPIO • 1* SMBUS • 1* AT mode	External I/O Front: • 1* USB3.1 (Gen.2) • 1* USB2.0 • 2* USB Type-C • 1* Line-out/MIC combo • Front Panel Power Switch Rear: • 1* USB3.1 (Gen.2) • 2* HDMI • 1* DP • 2* RJ45 • 12V DC-in
Power 12V DC-in PWR - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	Compliance CE, FCC, LVD, RoHS, REACH
Temperature • Operating Temperature: 0 ~ 50° C • Storage Temperature: -20 ~ 60° C • Humidity: 10% ~ 90% RH @40°C (non-condensing)	OS Support UEFI Win10 64-bit, Win 10 IoT Enterprise 64-bit LTSC 2019, CentOS (Version 9), Debian (Version 11.3), Fedora-LXDE (Version 36-1.5), Fedora Workstation (Version 36-1.5), Fedora Server (Version 36-1.5), Open SUSE (Version 15.4), Ubuntu Standard / LTS (Version 22.04), Ubuntu Server (Version 22.04), pfSense (Version 2.6.0), TrueNAS (FreeNAS) (Version 13.0), RedHat Enterprise (Version 9.0), OPNSense (Version 22.1.2)
Warranty 2 Years limited warranty	

* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Standard Accessories

Part Number	Description
MU03 Series	MU03 Series M/B