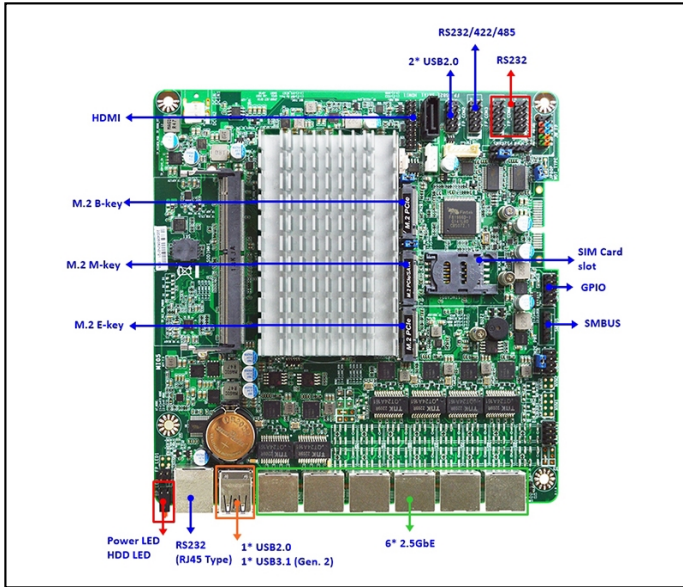


Mini-ITX Motherboard with Intel® Celeron® Processor J6412 and Intel® SoC Chipset



Features

- Powered by Intel® Celeron® Processor J6412 (Formerly Elkhart Lake, TDP 10W)
- High-Speed Networking: 6 x 2.5GbE Ethernet ports for enhanced connectivity
- Flexible Storage Options: 1 x SATA III, 1 x M.2 M-key (SATA/PCIe Gen.3 x2) with NVMe support
- Expandability: 1 x M.2 E-key (USB 2.0/PCIe Gen.3 x1), 1 x M.2 B-key (USB 3.1/PCIe Gen.3 x1), 1 x SIM card slot
- Comprehensive I/O: 1 x USB 3.2 Gen 2, 3 x USB 2.0, 4 x COM ports
- Secure Data Protection: Supports optional TPM 2.0
- Optional 64GB onboard eMMC storage

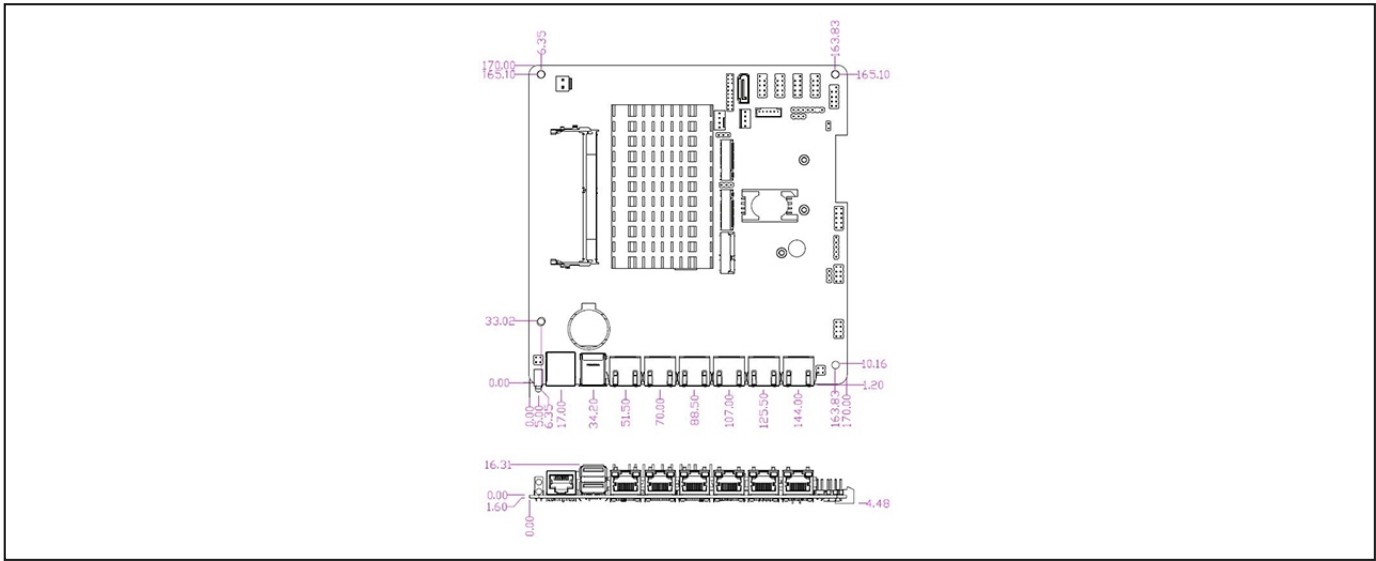
Packing List

PART NUMBER	DESCRIPTION	QTY
MI05-0X Series	MI05-0X Series M/B	1
F04-MB-063-F	I/O Shield	1
F04-MB-064-F	I/O Shield	1
G01-COM-H2M22-1F	COM Cable	1
G01-SATA3-BL-1F	SATA Cable	1
G01-PW4PS-2S-323F	SATA Power Cable	1
G01-2X10A-HDMI-F	HDMI Cable	1

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	Onboard Intel® Celeron® Processor J6412 (Formerly Elkhart Lake, TDP 10W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR4 3200MHz, Single Channel SO-DIMM, up to 32GB
BIOS	AMI 128Mb Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0 (Optional)
DIMENSION (W X D)	170.0 (W) x 170.0 (D) mm (6.7" x 6.7")
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12V
POWER ON MODE	AT / ATX
DISPLAY	
GPU	Intel® HD Graphics
HDMI	1 x HDMI (Max Resolution: 1920 x 1080@60Hz)
LAN	
ETHERNET	6 x RJ45 for Intel® I226-V 2.5GbE
USB PORT	
USB	1 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) 1 x USB 2.0 Internal Header for 2 x USB 2.0
SERIAL PORT	
COM	1 x RJ45 for RS-232 Internal Header for 2 x RS-232 Internal Header for 1 x RS-232/422/485
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
FRONT PANEL	HDD Active LED Power LED
ADDITIONAL	1 x PS/2 1 x AT Mode Selection
STORAGE	
SATA	1 x SATA III 1 x SATA Power Connector
eMMC	eMMC 64GB (optional)
EXPANSION	
M.2	1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) 1 x B-key 3042 (USB3.1/PCIe Gen.3 x1 interface) 1 x M-key 2242 (SATA/PCIe Gen.3 x2 interface) support NVMe
SIM	1 x SIM Card Slot
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	0°C - 60°C (32°F - 140°F)
STORAGE TEMPERATURE	-20°C - 85°C (-4°F - 185°F)
OPERATING HUMIDITY	10 - 90% relative humidity, non-condensing
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	EU RoHS China RoHS REACH

Dimension Unit: mm



Ordering Information

PART NUMBER	MI05-00-A1	MI05-02-A1	MI05-04-A1	MI05-08-A1
CPU	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412
SECURITY		TPM2.0		TPM2.0
POWER REQUIREMENT	DC-in 12V	DC-in 12V	DC-in 12V	DC-in 12V
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
ETHERNET	6 x 2.5GbE	6 x 2.5GbE	6 x 2.5GbE	6 x 2.5GbE
USB	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2
USB	3 x USB 2.0	3 x USB 2.0	3 x USB 2.0	3 x USB 2.0
COM	3 x RS-232	3 x RS-232	3 x RS-232	3 x RS-232
COM	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485
SATA	1 x SATA III	1 x SATA III	1 x SATA III	1 x SATA III
eMMC			eMMC 64GB	eMMC 64GB
M.2	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230
M.2	1 x B-Key 3042	1 x B-Key 3042	1 x B-Key 3042	1 x B-Key 3042
M.2	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242
SIM	1 x SIM Card Slot	1 x SIM Card Slot	1 x SIM Card Slot	1 x SIM Card Slot
OPERATING TEMPERATURE	0°C - 60°C (32°F - 140°F)	0°C - 60°C (32°F - 140°F)	0°C - 60°C (32°F - 140°F)	0°C - 60°C (32°F - 140°F)