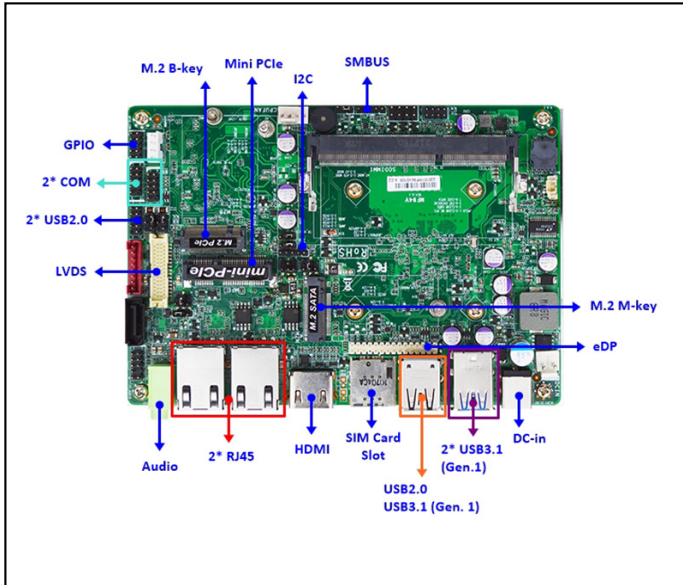


3.5" Motherboard with Intel SoC CPU, Dual 2.5GbE LAN, M.2 B-key with SIM slot, and 9–36V DC-in



## Features

- Powered by Intel® SoC Processor (Apollo Lake)
- 1 x DDR3L 1866MHz SO-DIMM, up to 8GB
- Dual 2.5GbE Networking: Reliable, high-speed connectivity
- Versatile Display Options: 1 x HDMI, 1 x eDP, 1 x LVDS for adaptable configurations
- Comprehensive I/O: 2 x COM, 3 x USB 3.1 Gen 1, 3 x USB 2.0
- Flexible Storage & Expansion: 1 x M.2 M-key 2242, 1 x SATA III, 1 x M.2 B-key 3042 with SIM card slot
- Additional Expansion: 1 x Full-size Mini-PCIe (USB/PCIe)
- Wide Range Power Input: DC-in 9–36V, built for demanding industrial applications

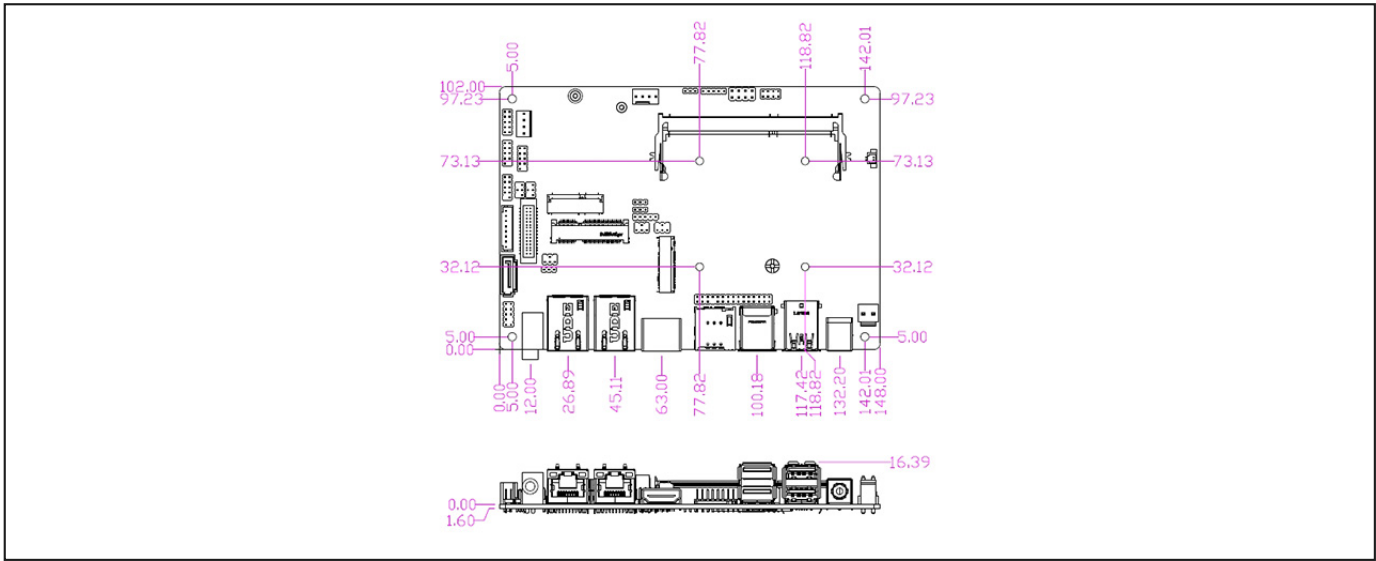
## Packing List

PART NUMBER	DESCRIPTION	QTY
MF94V Series	MF94V Series M/B	1
G01-COM-H2M22-1F	COM Cable	2
G01-PW4PS-2S-322F	SATA PWR Cable	1
G01-SATA3-BL-1F	SATA Cable	1

## Specifications

SYSTEM	
MB FORM FACTOR	3.5"
CPU	Onboard Intel® Celeron® Processor J3455 (Formerly Apollo Lake, TDP 10W) Onboard Intel® Celeron® Processor E3940 (Formerly Apollo Lake, TDP 9.5W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR3L 1866MHz SDRAM SO-DIMM non-ECC up to 8GB
BIOS	AMI Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0
DIMENSION (W X D)	148.0 (W) x 102.0 (D) mm (5.8" x 4.0")
POWER	
POWER REQUIREMENT	DC-in 9–36V
POWER ON MODE	AT / ATX
CONNECTOR	DC Jack
DISPLAY	
GPU	Intel® HD Graphics
LVDS	1 x LVDS (Max. Resolution: 1920 x 1080 @60Hz)
eDP	1 x eDP1.3 (Max Resolution: 3840 x 2160@60Hz)
HDMI	1 x HDMI (Max.Resolution : 3840 x 2160@30Hz)
AUDIO	
CODEC	Realtek Audio Codec
Line-out	1 x Audio Jack for Line-Out
LAN	
ETHERNET	2 x RJ45 for Intel® I226-V 2.5GbE
USB PORT	
USB	3 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1) 1 x USB 2.0 Internal Header for 2 x USB 2.0
SERIAL PORT	
COM	Internal Header for 1 x RS-232 Internal Header for 1 x RS-232/422/485
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
I2C	Yes
FAN	1 x CPU Fan Header
ADDITIONAL	1 x eDP 1 x LVDS w/ Inverter
STORAGE	
SATA	1 x SATA III 1 x SATA Power Connector
MINI PCI-E	1 x Full Size Mini-PCIe Support USB2.0 & PCIe1 interface
EXPANSION	
M.2	1 x M-Key 2242 (SATA) 1 x B-key 3042 (USB3.0 /PCIe x1 interface) support W/SIM card holder
SIM	1 x SIM Card Slot
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	0°C - 60°C (J3455 CPU), -20°C - 85°C (E3940 CPU)
STORAGE TEMPERATURE	-40°C - 85°C (-40°F - 185°F)
OPERATING HUMIDITY	10 - 90% relative humidity, non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS REACH

## Dimension Unit: mm



## Ordering Information

PART NUMBER	MF94V00	MF94V90
CPU	Intel® Celeron® J3455	Intel® Celeron® E3940
POWER REQUIREMENT	DC-in 9-36V	DC-in 9-36V
GPU	Intel® HD Graphics	Intel® HD Graphics
LVDS	1 x LVDS	1 x LVDS
eDP	1 x eDP	1 x eDP
HDMI	1 x HDMI	1 x HDMI
ETHERNET	2 x 2.5GbE	2 x 2.5GbE
USB	3 x USB 3.1	3 x USB 3.1
USB	3 x USB 2.0	3 x USB 2.0
COM	1 x RS-232	1 x RS-232
COM	1 x RS-232/422/485	1 x RS-232/422/485
SATA	1 x SATA III	1 x SATA III
MINI PCI-E	1 x Full mini PCIe	1 x Full mini PCIe
M.2	1 x M-Key 2242	1 x M-Key 2242
M.2	1 x B-Key 3042	1 x B-Key 3042
SIM	1 x SIM Card Slot	1 x SIM Card Slot
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)	-20°C ~ 85°C (-4°F ~ 185°F)