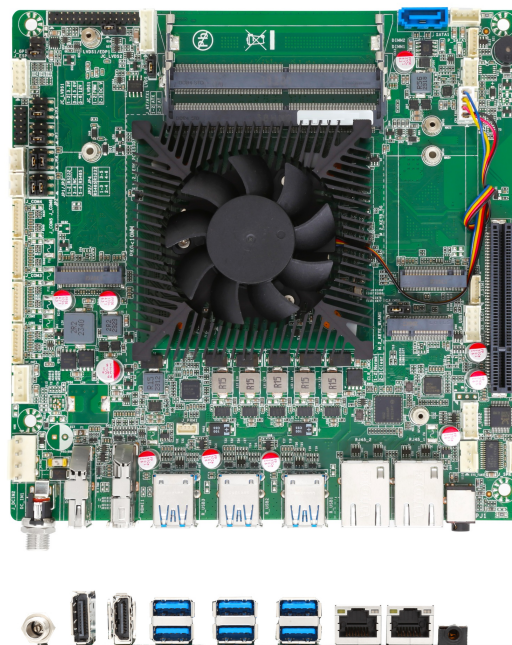
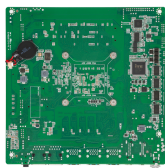


Features

- Intel Alder Lake-P i3-1215U/i5-1235U/i7-1255U Processor
- 6 x COM, 8 x USB, 2 x Intel Gigabit LAN
- 1 x SATA 3.0, 1 x M.2 Key-M, 1 x PCIE x8 slot (x4), 1 x M.2 Key-B, 1 x M.2 Key-E
- Support 1 x HDMI, 1 x DP, 1 x LVDS/eDP
- Support DC 12/24V Power Input



Core System

CPU	Intel i3-1215U, 2P4E-core, up to 4.40 GHz, TDP 15W Intel i5-1235U, 2P8E-core, up to 4.40 GHz, TDP 15W Intel i7-1255U, 2P8E-core, up to 4.70 GHz, TDP 15W
System Memory	DDR4-3200 MHz, 2 x non-ECC SO-DIMM, up to 64GB
Chipset	SoC integrated
BIOS	AMI
Storage	1 x SATA 3.0 7P Connector (with 1 x SATA power wafer) 1 x M.2 Key-M Slot (PCIe x4 NVMe / SATA SSD, 2280, auto detect)
Watchdog Timer	1 - 255 steps by software program
Expansion Slot	1 x PCIe x8 slot (PCIe x4 signal) 1 x M.2 Key-B slot (Support 4G/5G, 2242/3052) 1 x M.2 Key-E slot (Support Wifi/BT, 2230)
Power Input	DC-in 12/24V, optional 24V
Smart Fan Control	Supported
Dimensions	170 x 170 mm, Mini-ITX
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	5% to 95% relative humidity, non-condensing

Rear I/O

USB	6 x USB 3.0
Display I/O	1 x HDMI 1 x DP
Audio I/O	1 x Line-out + MIC
LAN I/O	2 x Intel RJ-45 Giga LAN
Serial Port	-
PS/2 Port	-
Others	1 x DC 12/24V Power Input Connector (24V optional)

Internal Connectors

USB	2 x USB 2.0 Wafer
Display I/O	1 x LVDS/eDP Header (LVDS Default)
Audio I/O	Realtek Audio HDA Codec
Serial Port	4 x RS-232, 2 x RS-232/485
Parallel Port	-
GPIO	1 x GPIO Header (Programmable support 8-bit GPIO)
Others	1 x ESPI Header, 1 x Front Panel Wafer, 1 x CPU FAN Wafer, 1 x System FAN Wafer, 1 x Power Debug Wafer, 1 x AT/ATX Jumper, 1 x CMOS Clear Jumper, 1 x CMOS Battery Wafer

Graphics

Chipset	For i7, Intel Iris Xe Graphics, up to 96 EUs, 1.25GHz For i5, Intel Iris Xe Graphics, up to 80 EUs, 1.20GHz For i3, Intel UHD Graphics, up to 64 EUs, 1.10GHz
VGA	-
DVI	-
HDMI	Up to 4096 x 2304 @ 60Hz
Display Port	Up to 4096 x 2304 @ 60Hz
LVDS	Up to 1920 x 1080 @ 60Hz (Default)
eDP (Option)	Up to 3840 x 2160 @ 60Hz

Others

OS Support	Windows 10, Windows 11, Linux
Certifications	CE / FCC Class B

Ordering Information

MF-i3-1215U	With Intel Core i3-1215U processor, 2P4E-core, up to 4.40GHz
MF-i5-1235U	With Intel Core i5-1235U processor, 2P8E-core, up to 4.40GHz
MF-i7-1255U	With Intel Core i7-1255U processor, 2P8E-core, up to 4.70GHz