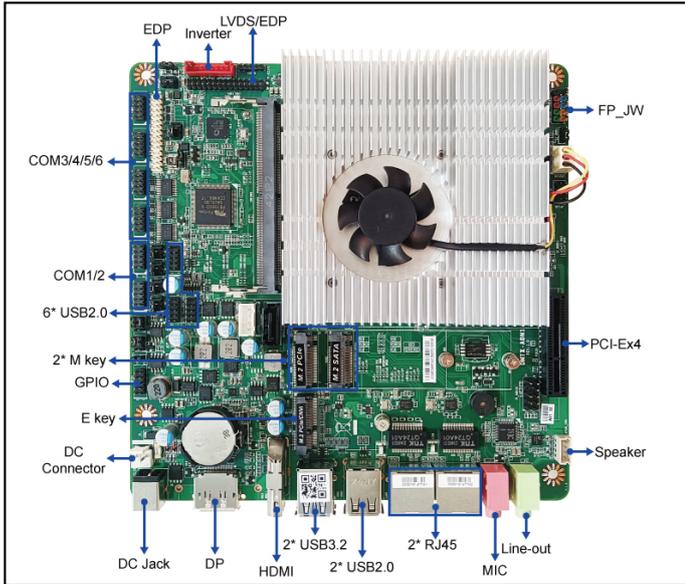# DMTX-ADN1

Mini-ITX with Intel® Processor N-series Processors (formerly Alder Lake-N) SoC

Features

- Intel® Processor N97 (Alder Lake-N, 12W TDP) for energy-efficient computing
- DDR5 4800MHz SO-DIMM,for faster data handling
- Versatile Display Options: DP, HDMI, LVDS/eDP for multiple screens
- Dual Gigabit LAN for high-speed networking
- Superior Expansion: Supports 1 PCIe, dual M-Key (NVMe, PCIe x2, and SATA), and E-Key slots (PCIe/USB and CNVi)
- Comprehensive I/O: 6 COM (1 COM with 5/12V TTL), 2 USB 3.2, 8 USB 2.0
- Enhanced Security Onboard: Optional with TPM 2.0 for robust encryption and security
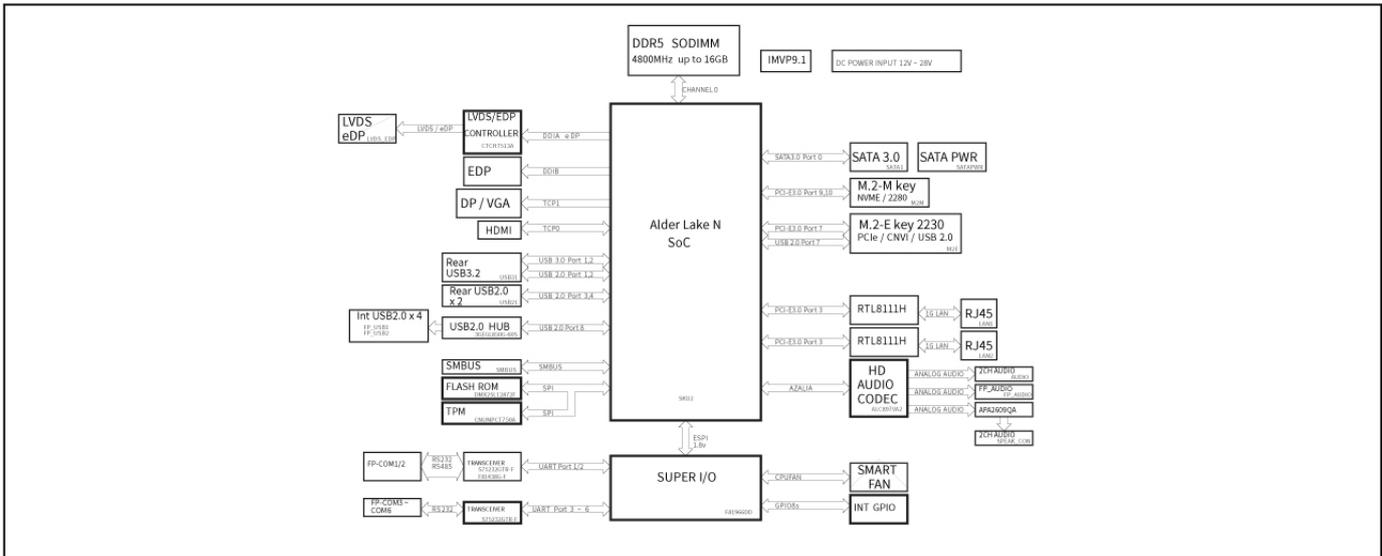- Wide-range DC-in: 12~19V for flexible power adaptability

Packing List

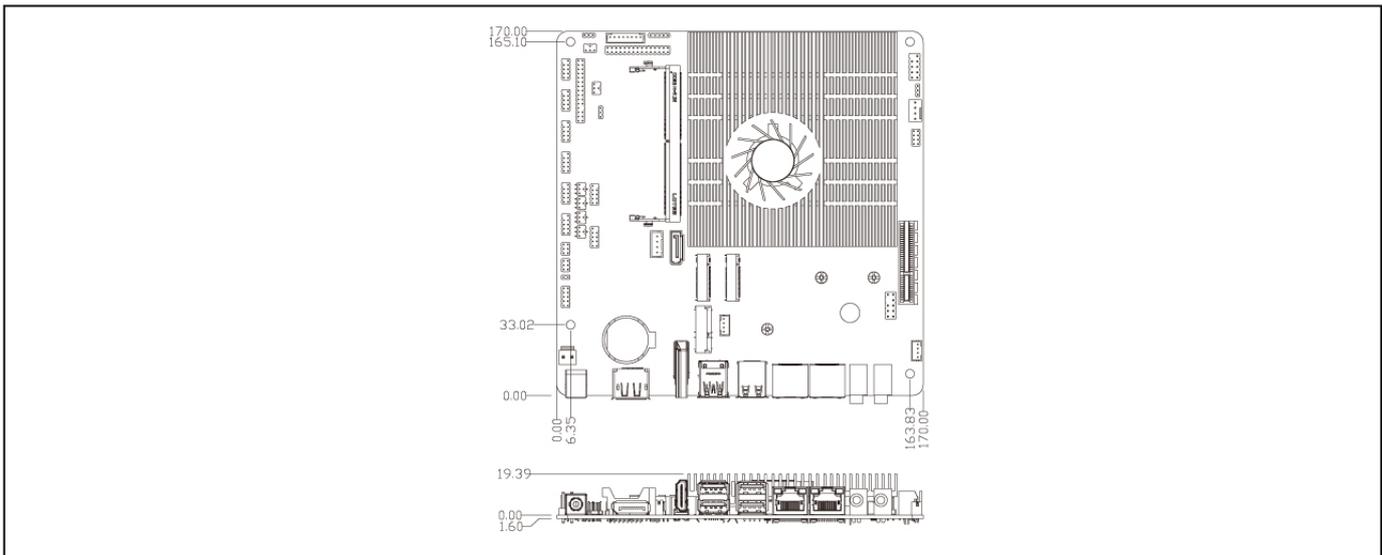| PART NUMBER	DESCRIPTION	QTY
DMTX-ADN1	DMTX-ADN1 MB	1
G01-COM-H2M22-1F	COM Cable	2
F04-MB-075-1F	I/O Shield	1

Specifications

SYSTEM

MB FORM FACTOR	Mini-ITX
CPU	Onboard Intel® Processor N97 (Formerly Alder Lake-N, TDP 12W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MHz, Single Channel SO-DIMM, up to 32GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0
RTC BATTERY	Lithium Battery
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 12~19V
POWER ON MODE	AT / ATX (Default) Mode
CONNECTOR	DC Jack Internal 2-pin Header

DISPLAY

GPU	Intel® UHD Graphics
LVDS	1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1200 @60Hz, Co-lay eDP)
eDP	2 x INT (co-lay with LVDS)
DP	1 x DP1.4 (Max Resolution: 4096 x 2160@60Hz)
HDMI®	1 x HDMI 2.0b (Max Resolution: 4096 x 2160@60Hz)
MULTIPLE DISPLAY	Support 3 Displays

AUDIO

CODEC	Realtek ALC897
Line-out	1 x Audio Jack for Line-Out
MIC-in	1 x Audio Jack for MIC-In
AMPLIFIER	3W

LAN

ETHERNET	2 x RJ45 for Realtek® RTL8111H GbE

USB PORT

USB	2 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1) 2 x USB 2.0 Internal Header for 6 x USB 2.0

SERIAL PORT

COM	Internal Header for 2 x RS-232/485 Internal Header for 4 x RS-232

INTERNAL I/O

GPIO	8-Bit
SMBUS	Yes
FAN	1 x 4-pin Connector for CPU Fan (PWM Mode)
FRONT PANEL	HDD Active LED Power LED Power On/Off Reset
ADDITIONAL	1 x Chassis intrusion 1 x AT/ATX Mode Selection

STORAGE

SATA	1 x SATA III 1 x SATA Power Connector

EXPANSION

M.2	1 x M-Key 2242/2280 (SATA III/PCIe 3.0 x2) Support NVMe 1 x M-Key 2242 (SATA III) 1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) Support CNVi
PCIe	1 x PCIE x4(PCI-Ex1 Interface)

OTHERs

OTHER	TPM2.0 (optional)

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 ~ 70°C (-4°F ~ 158°F)
OPERATING HUMIDITY	10 ~ 90% relative humidity, non-condensing
STORAGE HUMIDITY	0 ~ 95% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A LVD

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Note: All specifications are subject to change without notice.

DMTX-ADN1

Block Diagram

Dimension   Unit: mm

Ordering Information

PART NUMBER	DMTX-ADN1-N9700	DMTX-ADN1-N9702
CPU	Intel® Processor N97	Intel® Processor N97
SECURITY	Intel® PTT (fTPM)	TPM2.0 (dTPM)
POWER REQUIREMENT	DC-in 12~19V	DC-in 12~19V
GPU	Intel® UHD Graphics	Intel® UHD Graphics
LVDS	1 x LVDS	1 x LVDS
eDP	2 x eDP	2 x eDP
DP	1 x DP	1 x DP
HDMI	1 x HDMI	1 x HDMI
MULTIPLE DISPLAY	Support 3 Displays	Support 3 Displays
ETHERNET	2 x GbE	2 x GbE
USB	2 x USB 3.2	2 x USB 3.2
USB	8 x USB 2.0	8 x USB 2.0
COM	4 x RS-232	4 x RS-232
COM	2 x RS-232/485	2 x RS-232/485
SATA	1 x SATA III	1 x SATA III
M.2	1 x M-Key 2242/2280	1 x M-Key 2242/2280
M.2	1 x M-Key 2242	1 x M-Key 2242
M.2	1 x E-Key 2230	1 x E-Key 2230
PCIE	1 x PCIE x4	1 x PCIE x4
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)

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