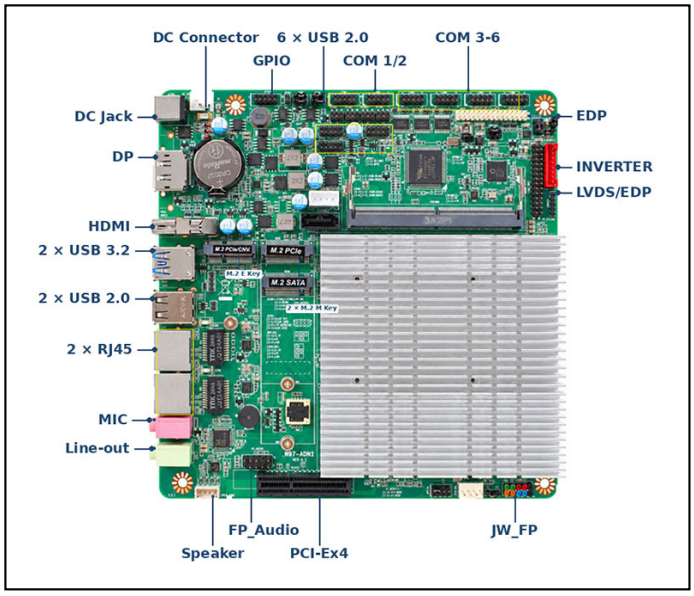
DMTX-TWL1

Mini-ITX with Intel® Twin Lake Series Processors, DDR5 up to 32GB, supporting up to 3 displays



Features

- **Onboard Intel® Processor N-series Processors (formerly Twin Lake) Intel® Processor N150 *For additional compatible CPUs, please contact regional sales.**
- **1 x DDR5 4800 MT/s SO-DIMM, up to 32GB**
- **1 x DP, 1 x HDMI®, 1 x eDP, 1 x LVDS/eDP**
- **2 x GbE LAN**
- **6 x COM, 2 x USB 3.2 Gen 1, 8 x USB 2.0**
- **1 x M.2 M-Key, 2242/2280 (NVMe, PCIe x2 Interface)**
- **1 x M.2 M-Key, 2242 (SATA Interface, Co-lay SATA Socket), 1 x M.2 E-Key, 2230 (PCIe x1/USB 2.0, CNVi Interface)**
- **1 x PCIe x4 (Gen 3, PCIe x1 Interface) slot**
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Packing List

PART NUMBER	DESCRIPTION	QTY
Part Number	Description	QTY per Board
DMTX-TWL1 Series	DMTX-TWL1 Series M/B	1
F04-MB-075-1F	LI1S DC+VGA/COM+HDMI+4USB+2LAN+2JK	1
G01-COM-H2M22-1F	COM9 2*5P 1/2 K=9 L=220mm PH2.0	2

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	Onboard Intel® Processor N150 (Formerly Twin Lake, TDP 6W) Onboard Intel Atom® x7433RE Processor (Formerly Amston Lake, TDP 9W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MT/s, Single Channel SO-DIMM, up to 32GB (Amston Lake CPU)
BIOS	AMI Flash ROM
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) & TPM 2.0 (dTPM)
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
CONNECTOR	DC Jack Internal 2-pin Header
DISPLAY	
GPU	Intel® HD Graphics, shared memory
LVDS	1 x LVDS/eDP (Max. Resolution: 1920 x 1200 @60Hz)
eDP	1 x eDP (Max Resolution: 2560 x 1600@60Hz or 1920 x 1200@60Hz)
DP	1 x DP1.4 (Max Resolution: 4096 x 2160@60Hz)
HDMI®	1 x HDMI® 2.1 (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	Internal Header for 6 x USB 2.0 2 x USB 2.0 2 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1)
SERIAL PORT	
COM	Internal Header for 2 x RS-232/485 Internal Header for 4 x RS-232 with 5V/12V header
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
FAN	1 x CPU Fan Header
FRONT PANEL	HDD Active LED, Power LED, Power On/Off, Reset
ADDITIONAL	1 x Chassis intrusion 1 x AT Mode Selection 1 x Inverter 1 x 2pin Power Connector 1 x FP_Audio
STORAGE	
SATA	1 x SATA III 1 x SATA Power Connector
EXPANSION	
PCIe	1 x PCIe x4 (PCIe x1 Interface)
M.2	1 x E-Key 2230 (USB 2.0/PCIe x1) Support CNVio 1 x M.2 M-Key, 2242 (SATA Interface, Co-lay SATA Socket) 1 x M-Key 2242/2280 (PCIe 3.0 x2)
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 70°C (-4°F ~ 158°F)
OPERATING HUMIDITY	10 ~ 90% @ 40°C, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS, China RoHS, REACH (Option)

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Note: All specifications are subject to change without notice.

Ordering Information

PART NUMBER	DMTX-TWL1-N1500	DMTX-TWL1-N1502	DMTX-ASL1-74330	DMTX-ASL1-74332
CPU	Intel® Processor N150	Intel® Processor N150	Intel® Atom® x7433RE Processor	Intel® Atom® x7433RE Processor
SECURITY	Intel® PTT (fTPM)	TPM 2.0 (dTPM)	Intel® PTT (fTPM)	TPM 2.0 (dTPM)
GPU	Intel® HD Graphics	Intel® HD Graphics	Intel® UHD Graphics	Intel® UHD Graphics

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