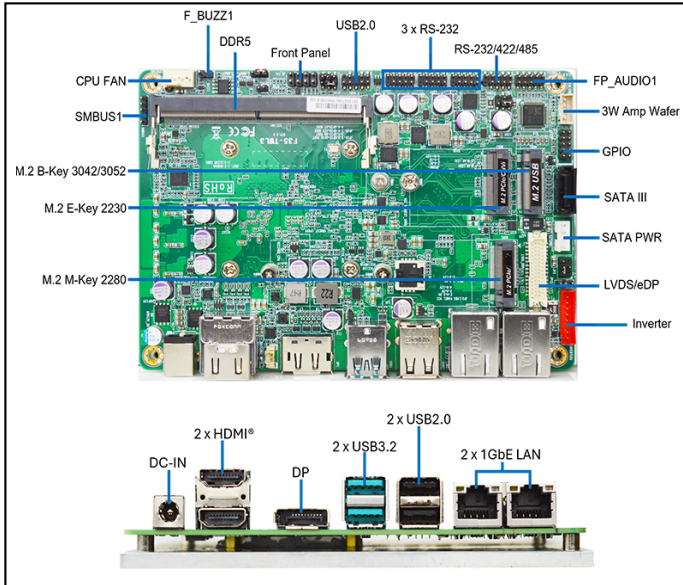


3.5" Motherboard with Intel N150 Processor



Features

- Powered by the Intel Processor N150 (Twin Lake) with a low 6W TDP and DDR5 4800MT/s memory, offering an optimal balance of power efficiency and performance
- Triple Display Support: 2 x 4K HDMI®, 1 x 4K DP, and 1 x eDP/LVDS output
- Storage & Expansion: 1 x M.2 M-key (NVMe), 1 x SATA III, 1 x M.2 E-key, and 1 x M.2 B-key
- Comprehensive I/O: 2 x USB 3.2 Gen 2, 4 x USB 2.0, 4 x COM
- Support -20°C~60°C Temperature

Packing List

PART NUMBER	DESCRIPTION	QTY
Part Number	Description	QTY per Board
F35-TWL3	F35-TWL3 Mother Board	1
G01-COM-H2M22-1F	COM Cable	2
G01-SATA3-BL-1F	SATA Cable, 30cm	1
G01-PW4PS2S-322-1F	SATA Power Cable, 32cm	1
HCS3XXMHT03S-5F	Flat Type Heatsink (Assembled)	1
HCS376MHT01S-F	CPU Plate (Assembled)	1

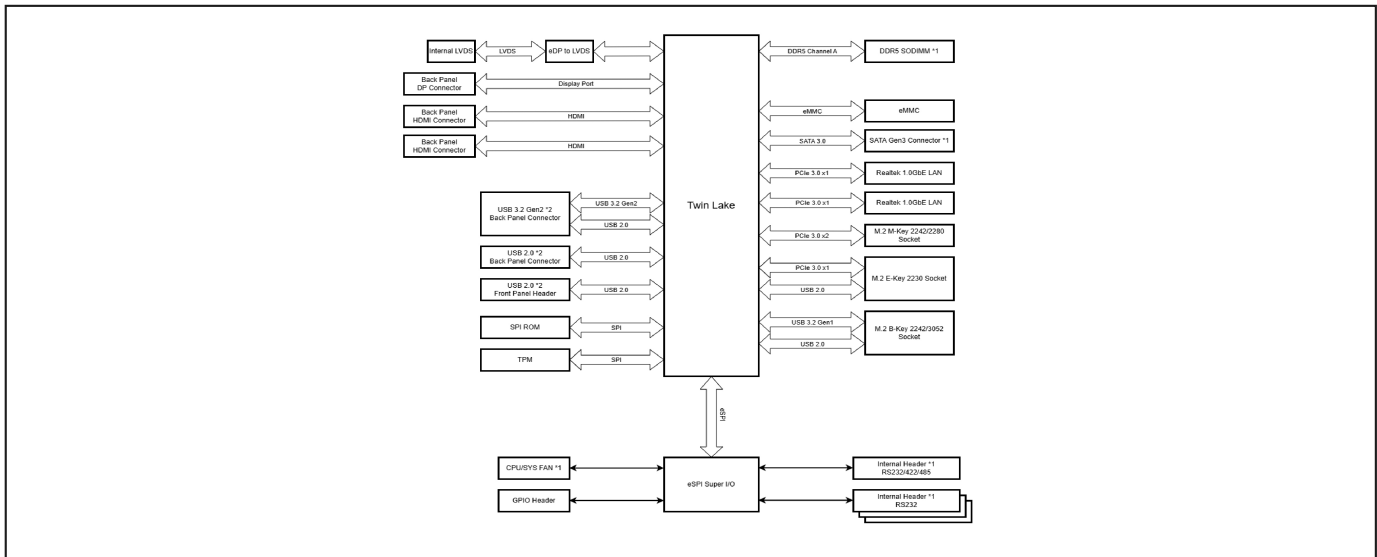
Optional Accessory

PART NUMBER	DESCRIPTION	QTY
F05-JF35-04-F	Heatsink	1

Specifications

SYSTEM	
MB FORM FACTOR	3.5"
CPU	Onboard Intel Atom® N150 Processor (Formerly Twin Lake, TDP 6W) For additional compatible CPUs, please contact regional sales
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MT/s, Single Channel SO-DIMM, up to 32GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0 (dTPM, Optional)
RTC BATTERY	Lithium Battery
DIMENSION (W X D)	148.0 (W) x 102.0 (D) mm (5.8" x 4.0")
OS SUPPORT	Windows® 11 (64bit), Windows® 10 (64bit), Linux
POWER	
POWER REQUIREMENT	DC-in 12V
POWER ON MODE	AT / ATX (Default) Mode
CONNECTOR	DC Jack
DISPLAY	
GPU	Intel® Graphics
LVDS	1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1080 @60Hz, co-layout eDP)
DP	1 x DP1.4a (Max Resolution: 4096 x 2160@60Hz)
HDMI®	2 x HDMI® 2.1 TMDS (Max Resolution: 4096 x 2160@60Hz)
MULTIPLE DISPLAY	Support 3 Displays
AUDIO	
CODEC	Realtek ALC897
COMBO	1 x Internal Header(Line-in/Line-out/MIC-in)
LAN	
ETHERNET	2 x RJ45 for Realtek® RTL8111H GbE
USB PORT	
USB	2 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) 2 x USB 2.0 Internal Header for 2 x USB 2.0
SERIAL PORT	
COM	Internal Header for 1 x RS-232/422/485 Internal Header for 3 x RS-232
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
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 B-Key 3042/3052 (USB 3.2) for 4G/5G/LTE 1 x E-Key 2230 (USB 2.0/PCIe x1) for WIFI/BT Module 1 x M-Key 2280 (PCIe 3.0 x2) Support NVMe
SIM	1 x Nano SIM Card Slot
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	-20°C - 60°C (-4°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

Block Diagram



Ordering Information

PART NUMBER	F35-TWL3-N1500010	F35-TWL3-N1500210
CPU	Intel® Atom® N150 Processor	Intel® Atom® N150 Processor
SECURITY	Intel® PT (fTPM)	TPM 2.0 (dTPM)