



LE-37T – 3.5” Miniboard with Intel® Atom Processor X Series (Amston Lake)

The LE-37T 3.5 inch Miniboard platform is designed for Intel® Atom™ Processors in the FCBGA1264 package support DDR5 memory (One DDR5 SO-DIMM up to 4800 MHz 32GB).

The platform is based on Intel® UHD Graphics, this GPU offers 32 execution units (EUs) clocked at up to 800Mhz(depending on the CPU model). Displays can be connected via one LVDS, one HDMI, one DP++, one Type-C (DP Alt Mode) port for displays can be controlled simultaneously. LE-37T offers lots of features including high-speed data transfer interfaces such as 2 x USB3.2 Gen2 and 1 x SATA3, equipped with triple Gigabit Ethernet, and comes with 4 x RS232 and 2 x RS232/422/485, 2 x USB2.0, Intel® High Definition Audio, 1 x M.2 Key E 2230, 1 x M.2 Key M 2280 support Gen3 PCIe x4 for NVMe.

SPECIFICATIONS

CPU	Intel® Atom Processor X Series (Amston Lake)
Memory Type	262-pin DDR5 4800MHz SO-DIMM
Memory Slots	1
Maximum Memory Supported	32GB
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Integrated Graphics	Intel® UHD Graphics
Video	1 x DisplayPort++, 1 x HDMI, 1 x Type-C(DP Alt. Mode), 1 x LVDS
LAN Ports	2 x Intel® I226 Gigabit LAN (Up to 2.5GbE)
Serial ATA (SATA)	1 x Serial ATA3 (for OEM)
Extended Interface	1 x M.2 Key M 2280 support Gen3 PCIe x4 for NVMe, 1 x M.2 Key E 2230 for Wi-Fi and Bluetooth

Internal I/O

1 x SATA3(for OEM), 2 x RS232/422/485, 4 x RS232, 2 x USB2.0, 1 x LVDS, 1 x LCD inverter connector, 1 x GPIO, 1 x SMBus, 1 x Audio (MIC-in, Line-out), 1 x Speaker Out with Amp

Rear I/O

1 x DisplayPort++, 1 x HDMI, 2 x USB 3.2 Gen2, 2 x LAN, 1 x Type-C (DP Alt. Mode)

Audio

Realtek ALC888S HD Audio with 3 Watt amplifier for 4 ohm speaker

Power Requirement

DC input 9~35V

Dimensions

5.75" x 3.98" (146mm x 101mm)

Operating Temperature

-40°C ~ 85°C (-40°F ~ 185°F)

Storage Temperature

-40°C ~ 85°C (-40°F ~ 185°F)

Relative Humidity

10% to 90% (non condensing)

OS Software Supported

Windows 10 Professional 64-bit, Windows 11

Global P/N / SKU

3309001

Ordering Options

3309001A - LE-37TX4 with AtomTM x7433RE + Heat Spreader 3309001B - OEM LE-37TX8 with AtomTM x7835RE + Cooler Fan 3309001C - OEM LE-37TX2 with AtomTM x7213RE + Heat Spreader 3309001D - OEM LE-37TX1 with AtomTM x7211RE + Heat Spreader Note: SATA port for OEM

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