LE-37S – 3.5" Miniboard with Intel® CoreTM Ultra Processors (Series 1)

The LE-37S 3.5 inch Miniboard platform is designed for Intel® CoreTM Ultra Processors in the FCBGA2049 package and supports DDR5 memory up to 5600 MHz 96GB. The platform is based on Intel® ArcTM Graphics, this GPU offers 32 execution units (EUs) clocked at up to 1350Mhz(depending on the CPU model). Displays can be connected via one LVDS, one HDMI, one DP++, one Type-C (DP Alt Mode) port and one eDP up to four displays can be controlled simultaneously.

SPECIFICATIONS

CPU	Intel® CoreTM Ultra Processor
Memory Type	262-pin DDR5 SO-DIMM
Memory Slots	2
Maximum Memory Supported	96GB
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® ArcTM Graphics
Video	1 x DisplayPort++, 1 x HDMI, 1 x Type-C (DP Alt. Mode), 1 x eDP
LAN Ports	1 x Intel® I226-LM Gigabit LAN (Up to 2.5GbE), 2 x Intel® I226-V Gigabit LAN (Up to 2.5GbE)
Serial ATA (SATA)	2 x SATA3 (mSATA and SATA2 can't be use at the same time)
Extended Interface	1 x MiniPCIe with SIM slot (support mSATA, mSATA and SATA2 can't use at the same time), 2 x M.2 Key M 2280 support PCIe Gen4 for NVMe, 1 x M.2 Key E 2230 for Wi-Fi and Bluetooth
Rear I/O	1 x DisplayPort++, 1 x HDMI, 3 x USB3.2 Gen2, 3 x LAN, 1 x Type-C (DP Alt. Mode)

Internal I/O	2 x SATA3, 2 x RS232/422/485, 2 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 Audio Amplifier, 1 x eDP
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	0 ~ 60C (32 ~ 140F)
Storage Temperature	-20 ~ 80 °C (-4 ~ 176 °F)
Relative Humidity	10% to 90% (non condensing)
OS Software Supported	Windows 10 Professional 64-bit, Windows 11
Global P/N / SKU	3308950

Ordering Options

3308950A - LE-37SU7 with Ultra 7 165U and cooler fan 3308950B - OEM LE-37SH7 with Ultra 7 165H and cooler fan 3308950C - OEM LE-37SU5 with Ultra 5 135U and cooler fan 3308950D - OEM LE-37SH5 with Ultra 5 135H and cooler fan Note: SATA2 cannot use when Mini Card settings changed to mSATA