LE-37R – Alder Lake® 3.5" Mini Board

The LE-37R 3.5" Mini Board is designed for Intel® Alder Lake /12th Gen P processors in the FCBGA1744 package. With Intel Xe/UHD Graphics with 32 execution units (EUs) clocked at up to 1350Mhz (depending on the CPU model), displays can be connected via 1x LVDS, 1x HDMI, 1x DP, 1x Type-C (DP Alt Mode) port or 2x HDMI / DVI and up to four displays can be controlled simultaneously. The LE-37R offers impressive features including high-speed data transfer interfaces such as 3 x USB3.2 Gen2 and 2 x SATA3. It's also equipped with 3x Gigabit Ethernet, 1x M.2 Key E 2230, 2x M.2 Key M 2280 (NVMe) and 1x Mini PCIe with SIM slot (mSATA).

SPECIFICATIONS

CPU	Intel® Core i7-1270PE or Core i7-1265UE
Memory Type	262-pin DDR5 SO-DIMM
Memory Slots	2
Maximum Memory Supported	64GB
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® 12th Generation Integrated UHD or Iris XE Graphics (depending on CPU)
TPM	Yes; fTPM
Video	1 x LVDS, 1 x DP, 1 x HDMI, 1 x Type-C (DP Alt. Mode)
LAN Ports	1x Intel® I219-LM Gigabit LAN (Support Intel® AMT 16.0), 2x Intel® I226-LM Gigabit LAN (Up to 2.5GbE)
Serial ATA (SATA)	2 x SATA III (RAID 0,1 and Rapid Storage Technology)
Extended Interface	1 x MiniPCIe with SIM slot (mSATA), 2 x M.2 M-Key (2280,PCIe Gen4 for NVMe), 1 x M.2 E-Key (2230 for Wi-Fi and Bluetooth)
Rear I/O	1 x DP*, 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, 2 x HDMI / DVI
Audio	Realtek® ALC888S HD Audio with 3Watt 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	3308934

Ordering Options

3308934A - LE-37RP7 with Core i7-1270PE and Cooler Fan 3308934B - LE=37RU7 with Core i7-1265UE and Cooler Fan   NOTES: SATA2 cannot be used when mini-card changed to mSATA Pin header must be changed to support DP, please contact sales for special request 2x Memory must be installed to use Intel® Xe Graphics

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