ASRock Industrial

IMB-1235

Mini-ITX Motherboard

KEY FEATURES

- Intel® 13th Gen Raptor Lake-P MCP Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64GB (32GB per DIMM)
- 2 x USB4/Thunderbolt™4, 2 x USB 3.2 Gen2, 1x USB 3.2 Gen1, 3 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 1 x M.2 Key B, 6 x COM, 2 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 2 x HDMI 2.0b, 2 x DP 1.4a (2 from Type C), 1 x LVDS, 1 x eDP
- TPM 2.0 onboard IC
- Supports Intel® vPro (IMB-1235P/IMB-1235M), VMD RAID 0/1
- 12~28V DC-In (Lockable DC Jack)

SPECIFICATIONS

Form Factor

Dimensions(LxWxH)	Mini-ITX (6.7-in x 6.7-in x 1.5-in, 17.0 cm x 17.0 cm x 3.8 cm)

Processor System

CPU	Intel® 13th Gen (Raptor Lake-P) Core™ Processors IMB-1235P (i7-1365UE, 2P+8E) IMB-1235M (i5-1335UE, 2P+8E) IMB-1235V (i3-1315UE, 2P+4E)
Chipset	MCP
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR4 3200 MHz
Capacity	64GB (32GB per DIMM)
Socket	2 x 260 SO-DIMM

Graphics

Controller	Intel® Iris® Xe Graphics
HDMI	2 x HDMI 2.0b Max resolution up to 4096x2160@60Hz
LVDS	Dual channel 24 bit up to 1920 x 1200@60Hz
eDP	eDP 1.4b Max resolution up to 4096x2160@60Hz
DisplayPort	2 x DisplayPort 1.4a Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad display (Included 2 outputs from Type-C)

Expansion Slot

M.2	1 x M.2 (Key B, 3042/3052) with PCIex1, USB 3.2, USB 2.0 and SIM for 4G/5G 1 x M.2 (Key E, 2230) with PCIe, USB 2.0 and CNVi for Wireless
SIM Socket	1x SIM socket connected to M.2 key B

Audio

Interface	Realtek ALC897 HD, High Definition Audio.

Ethernet

Controller/ Speed	IMB-1235P/IMB-1235M LAN1: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro LAN2: Intel® I226V with 10/100/1000/2500 Mbps IMB-1235V LAN1: Intel® I226LM with 10/100/1000/2500 Mbps LAN2: Intel® I226V with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Rear I/O

HDMI	2 x HDMI 2.0b
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 2.0 2 x USB 3.2 Gen2 2 x USB4/Thunderbolt™4 (5V/3A, supports DP1.4a display output) * For Thunderbolt support, please refer to support list.
Audio	2 (Mic-In/Line-Out)
DC Jack	1 DC-in

Internal Connector

USB	1 x USB 3.2 Gen1 and 1 x USB 2.0 (1 x USB3.2 header)
COM	COM1, COM2 (RS-232/422/485) COM3, COM4, COM5, COM6 (RS-232)
GPIO	4 x GPI, 4 x GPO
LVDS	1
eDP	1
SATA PWR Output	1
Speaker Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe Gen4 x4 for SSD
SATA	2 x SATA3 (6Gb/s)
RAID	Intel® VMD RAID 0/1 **supported by identical interface (PCIE or SATA) PCIE interface: M.2 Key B+ M.2 Key M SATA interface: 2 x SATA port

Security

TPM	TPM 2.0 onboard IC

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	12V~28V DC-in with Lockable DC Jack
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

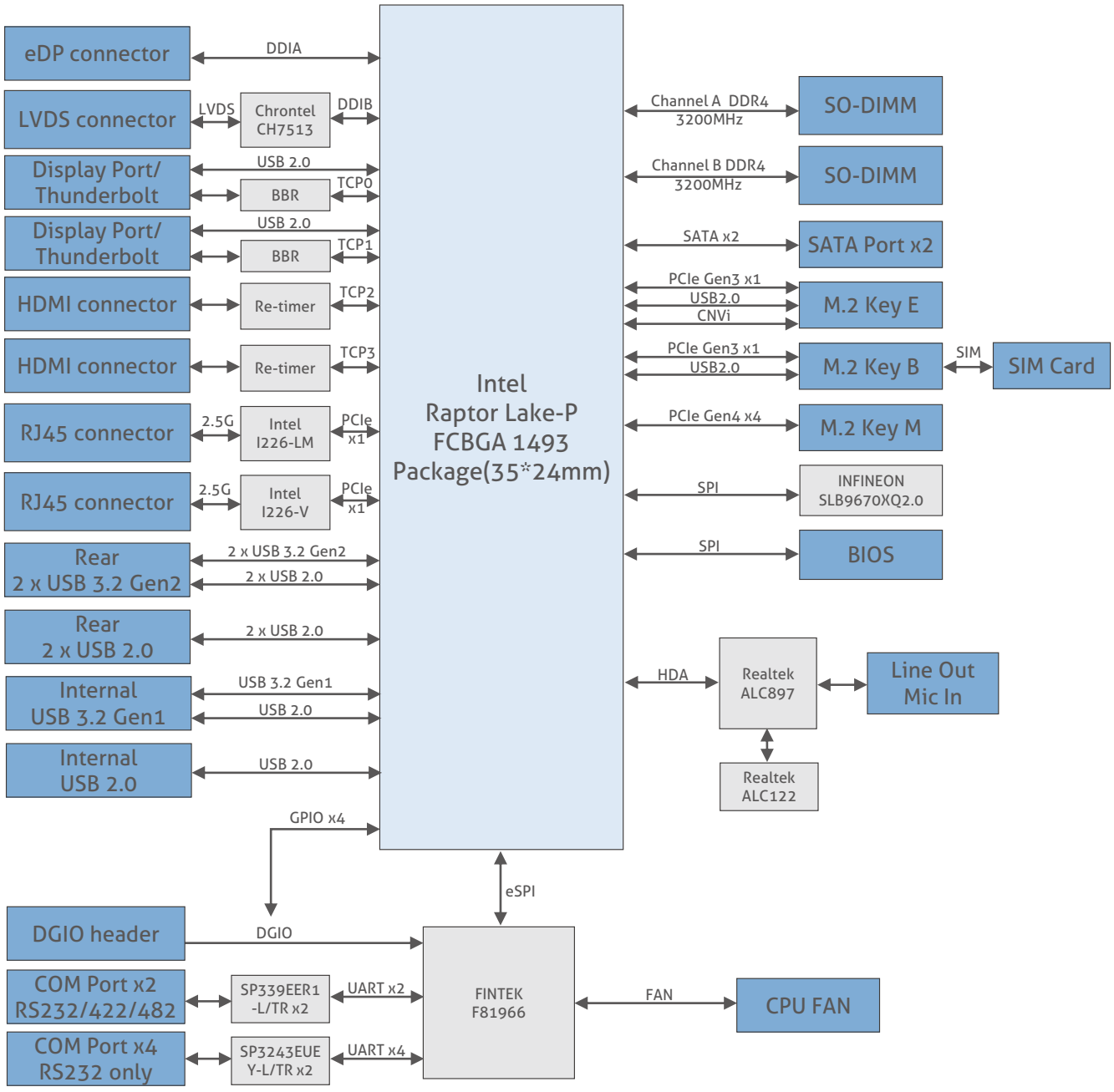
Operating Temp	-20°C ~ 70°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

ASRock Industrial

IMB-1235
Mini-ITX Motherboard

BLOCK DIAGRAM



The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660