# AmITX-RL-WV

Wide-voltage Mini-ITX supporting Intel® Core™ Series 2 (Bartlett Lake-S) and 14/13/12th Gen Core™ Processors with H610 chipset

## Features

- Intel® Core™ Processor Series 2 and 14/13/12th Gen Core™ i9/i7/i5/i3 Processors and H610 chipset, up to 65W
- 2x DDR5 4800/DDR4 3200 MHz SO-DIMM memory, up to 64GB (optional)
- Triple independent display: HDMI 2.0b, DP 1.4a, LVDS, eDP1.4b
- Dual LAN ports
- Expansion slots: 1x PCIe x16 slot, 2x USB 3.2 Gen2, 1x USB 3.2 Gen1, 5x USB 2.0, 1x M.2 B-key, 1x M.2 E-key, 1x M.2 M-key
- Support 12 to 28V DC-In power input

## Ordering Information

| PN | Model Name | Chipset | Memory | PCIe x16 | DP | HDMI | LVDS | eDP | LAN | COM | SATA | M.2 | USB2.0 | USB3.2 (Gen1) | USB3.2 (Gen2) | RAID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95-16008-1000 | AmITX-RL-WV | H610 | Non-ECC DDR4 3200 MHz | 1 | 2 | 1 | 1 | 1 | 2 | 4 | 2 | 3 | 5 | 1 | 2 | No |
| 95-16008-1010 | AmITX-RL-WV-DDR5 | H610 | Non-ECC DDR5 4800 MHz | 1 | 2 | 1 | 1 | 1 | 2 | 4 | 2 | 3 | 5 | 1 | 2 | No |

## Packing Lists

| PN | Description | QTY |
|---|---|---|
| 95-16008-1000 | AmITX-RL-WV | 1 |
| N/A | M.2 screws kits | 1 |
| N/A | I/O shield | 1 |
| 95-16008-1010 | AmITX-RL-WV-DDR5 | 1 |
| N/A | M.2 screws kits | 1 |
| N/A | I/O shield | 1 |

## Optional Accessories

| PN | Description |
|---|---|
| 30-21625-0000-B0 | USB 2.0 Cable (2 ports) |
| 30-21597-1000-A0 | USB2.0/3.0 Cable (2 ports) |
| 30-10057-7000 | SATA Cable |
| 30-22156-0000-A0 | SATA Power Cable |
| 30-22155-0000-A0 | COM Port Cable (1 port) |
| 32-21100-0000-A0 | CPU 1U cooler for 65W CPU |



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## Embedded OS

| PN | Description |
|---|---|
| 92-56094-0010 | Windows 10 IoT Ent LTSC 2021 High End PKEA |
| 92-56094-2010 | Windows 10 IoT Ent LTSC 2021 Value PKEA |
| 92-56094-4010 | Windows 10 IoT Ent LTSC 2021 Entry PKEA |
| 92-56102-0010 | Windows 11 IoT Ent LTSC 2024 High End PKEA |
| 92-56102-2010 | Windows 11 IoT Ent LTSC 2024 Value PKEA |
| 92-56102-4010 | Windows 11 IoT Ent LTSC 2024 Entry PKEA |

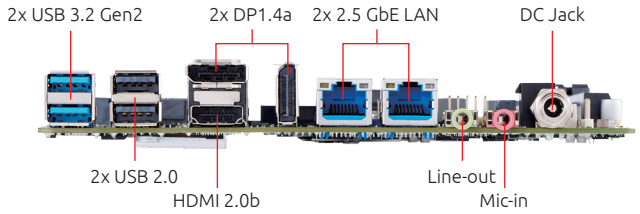
## Specifications

| Model | AmITX-RL-WV | AmITX-RL-WV-DDR5 |
|---|---|---|
| **Processor System** | | |
| CPU | Intel® Core™ Series 2 (Bartlett Lake-S) and 14/13/12th Gen Core™ Processors, up to 65W | |
| Socket | LGA 1700 | |
| Chipset | H610 | |
| Memory | 2x DDR4 SO-DIMMs 3200 MHz, up to 64GB, non-ECC | 2x DDR5 SO-DIMMs 4800 MHz, up to 64GB, non-ECC |
| OS Support | Windows® 10/11 64-bit | |
| **Display** | | |
| HDMI | 1x HDMI 2.0b | |
| DisplayPort | 2x DP 1.4a | |
| LVDS | 1 | |
| eDP | 1 | |
| No. of Displays | 3 | |
| **Ethernet** | | |
| GbE Port | 2 | 2 |
| Controller/Frequency | 2.5 GbE (i225V) | 1x 1GbE (i219V)<br>1x 2.5GbE (i226V) |
| **Storage** | | |
| SATA | 2 | 2 |
| RAID | - | - |
| **I/O Interfaces** | | |
| USB | 2x USB 3.2 Gen2, 2x USB 2.0 (rear I/O)<br>1x USB 3.2 Gen1, 3x USB 2.0 (via headers) | |
| COM | 2x RS-232/422/485 (via headers)<br>2x RS-232 (via headers) | 2x RS-232/422/485 (via headers) |
| Audio | Realtek® ALC897; 1x Mic-in, 1x Line-out | |
| GPIO | 8-bit | |
| TPM | TPM 2.0 onboard IC | |
| **Expansion Slots** | | |
| PCIe | 1x PCIe 4.0 x16 | 1x PCIe 5.0 x16 |
| M.2 | 1x M.2 2242/2280 M Key (PCIe Gen3 x4)<br>1x M.2 2230 E Key (PCIe x1, USB 2.0, CNVi)<br>1x M.2 3042/3052 B Key (PCIe x1, USB 3.2 Gen1, USB 2.0)<br>1x SIM socket (connected to M.2 B Key) | |
| **Mechanical and Environmental** | | |
| Dimension | 170 x 170mm (W x L) | |
| Operating Temperature | 0°C to 60°C | |
| Storage Temperature | -40°C to 85°C | |
| Relative Humidity | Operating: 45°C @ 95%R.H., non-condensingStorage: 55°C @ 95%R.H., non-condensing | |
| **Power Supply** | | |
| | 12 to 28V DC-In with DC Jack (Screw type) or ATX 4pin connector | 12 to 28V DC-In with ATX 4pin connector |
| **Certification** | | |
| | CE & FCC Class B | |

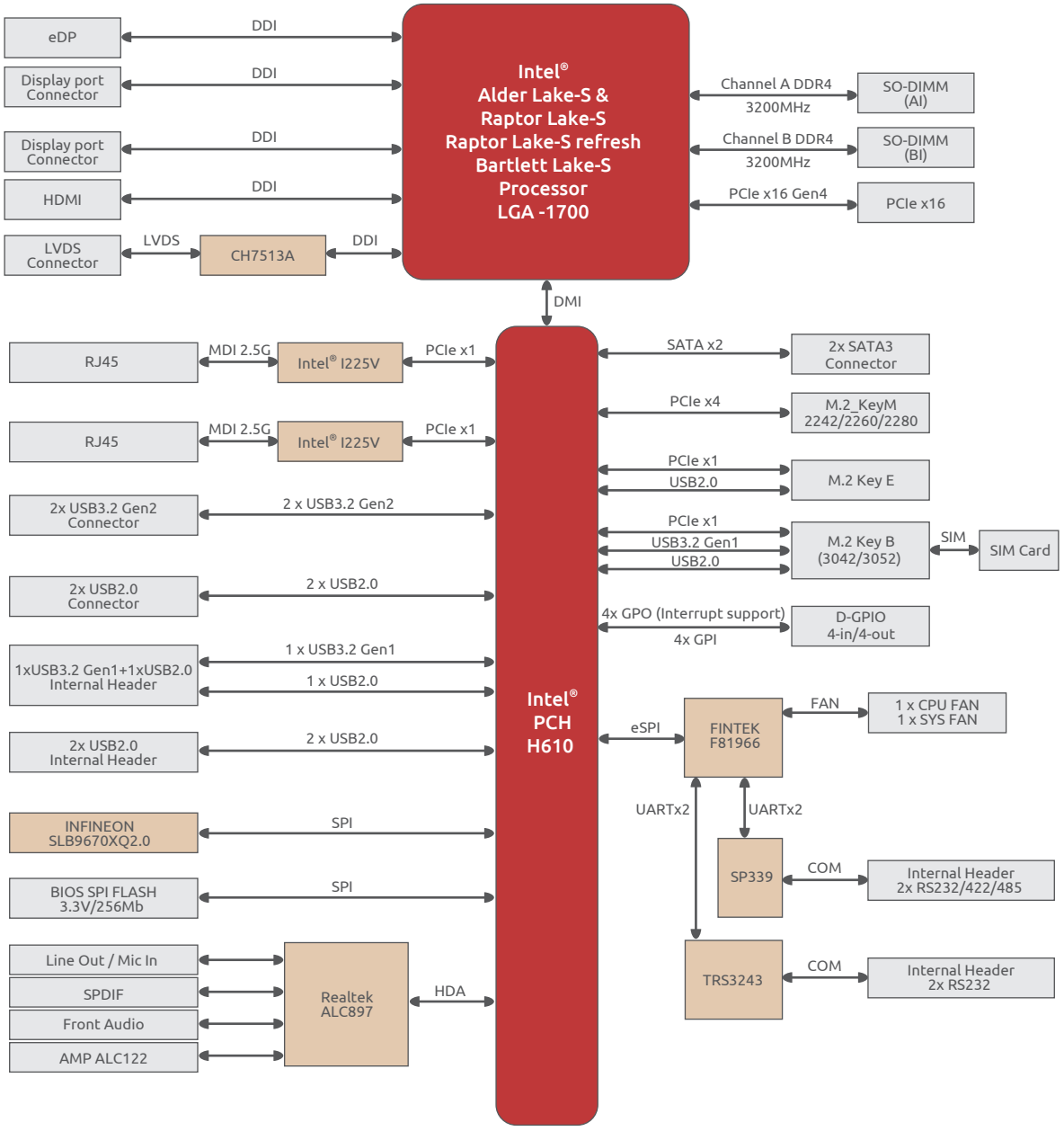


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## Product Illustration: AmITX-RL-WV



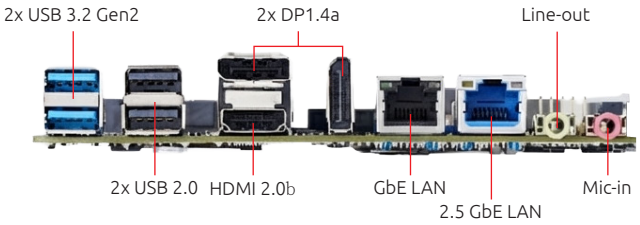

## Block Diagram: AmITX-RL-WV



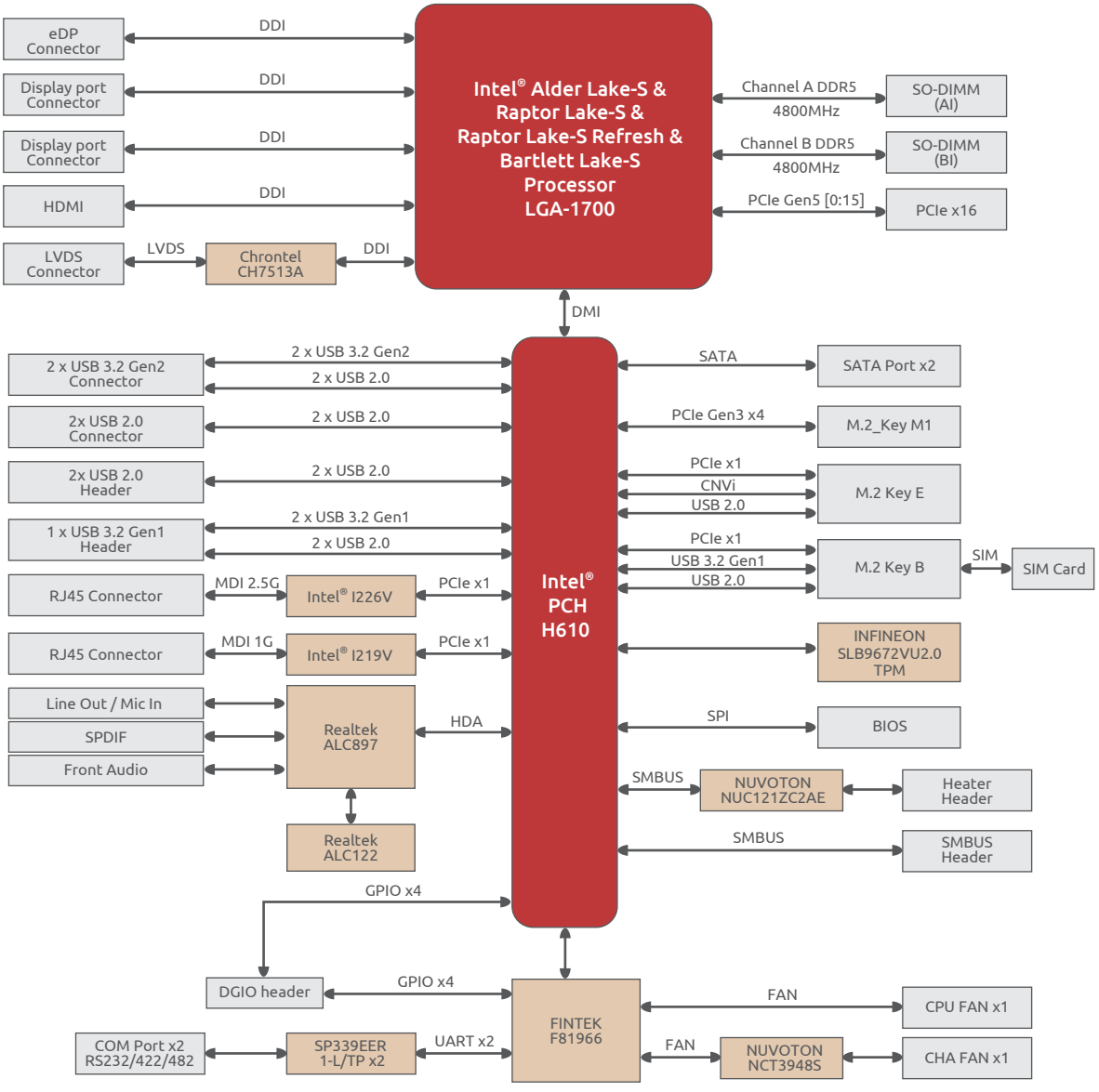



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## Product Illustration: AmITX-RL-WV-DDR5




## Block Diagram: AmITX-RL-WV-DDR5






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## CPU Support List

| Family | Number | CPU Core | Frequency | Cache | Processor Base Power | Since BIOS |
|---|---|---|---|---|---|---|
| Bartlett Lake-S | 273PE | 12 | 2.3GHz | 36MB | 65 | 2.01.10 |
| Bartlett Lake-S | 273PTE | 12 | 1.4GHz | 36MB | 45 | 2.01.10 |
| Bartlett Lake-S | 253PE | 10 | 2.5GHz | 33MB | 65 | 2.01.10 |
| Bartlett Lake-S | 253PTE | 10 | 1.8GHz | 33MB | 45 | 2.01.10 |
| Bartlett Lake-S | 223PE | 8 | 2.9GHz | 24MB | 65 | 2.01.10 |
| Bartlett Lake-S | 223PTE | 8 | 2.3GHz | 24MB | 45 | 2.01.10 |
| Bartlett Lake-S | 213PE | 8 | 2.7GHz | 24MB | 65 | 2.01.10 |
| Bartlett Lake-S | 213PTE | 8 | 2.1GHz | 24MB | 45 | 2.01.10 |
| Bartlett Lake-S | 251E | 24 | 2.1 GHz | 36MB | 65 | 2.01.10 |
| Bartlett Lake-S | 251TE | 24 | 1.4 GHz | 36MB | 45 | 2.01.10 |
| Bartlett Lake-S | 221E | 14 | 2.7 GHz | 24MB | 65 | 2.01.10 |
| Bartlett Lake-S | 221TE | 14 | 1.8 GHz | 24MB | 45 | 2.01.10 |
| Bartlett Lake-S | 211E | 10 | 2.7 GHz | 20MB | 65 | 2.01.10 |
| Bartlett Lake-S | 211TE | 10 | 1.7 GHz | 20MB | 45 | 2.01.10 |
| Bartlett Lake-S | 201E | 4 | 3.6 GHz | 12MB | 60 | 2.01.10 |
| Bartlett Lake-S | 201TE | 4 | 2.9 GHz | 12MB | 45 | 2.01.10 |
| Raptor Lake-S Refresh | i9-14900 | 24 | 2.0GHz | 36MB | 65 | 1.00.10 |
| Raptor Lake-S Refresh | i9-14900T | 24 | 1.1GHz | 36MB | 35 | 1.00.10 |
| Raptor Lake-S Refresh | i7-14700 | 20 | 2.1GHz | 33MB | 65 | 1.00.10 |
| Raptor Lake-S Refresh | i7-14700T | 20 | 1.3GHz | 33MB | 35 | 1.00.10 |
| Raptor Lake-S Refresh | i5-14500 | 14 | 2.6GHz | 24MB | 65 | 1.00.10 |
| Raptor Lake-S Refresh | i5-14500T | 14 | 1.7GHz | 24MB | 35 | 1.00.10 |
| Raptor Lake-S Refresh | i5-14400 | 10 | 2.5GHz | 20MB | 65 | 1.00.10 |
| Raptor Lake-S Refresh | i3-14100 | 4 | 3.5GHz | 12MB | 60 | 1.00.10 |
| Raptor Lake-S Refresh | i3-14100T | 4 | 2.7GHz | 12MB | 35 | 1.00.10 |
| Raptor Lake-S Refresh | 300 | 2 | 3.9GHz | 6MB | 46 | 1.00.10 |
| Raptor Lake-S Refresh | 300T | 2 | 3.4GHz | 6MB | 35 | 1.00.10 |
| Raptor Lake-S | i9-13900E | 24 | 1.8GHz | 36MB | 65 | 1.00.10 |
| Raptor Lake-S | i9-13900 | 24 | 2.0GHz | 36MB | 65 | 1.00.10 |
| Raptor Lake-S | i9-13900TE | 24 | 1.0GHz | 36MB | 35 | 1.00.10 |
| Raptor Lake-S | i7-13700E | 16 | 1.9GHz | 30MB | 65 | 1.00.10 |
| Raptor Lake-S | i7-13700 | 16 | 2.1GHz | 30MB | 65 | 1.00.10 |
| Raptor Lake-S | i7-13700TE | 16 | 1.1GHz | 30MB | 35 | 1.00.10 |
| Raptor Lake-S | i5-13500E | 14 | 2.4GHz | 24MB | 65 | 1.00.10 |
| Raptor Lake-S | i5-13500 | 14 | 2.5GHz | 24MB | 65 | 1.00.10 |
| Raptor Lake-S | i5-13500TE | 14 | 1.3GHz | 24MB | 35 | 1.00.10 |
| Raptor Lake-S | i5-13400E | 10 | 2.4GHz | 20MB | 65 | 1.00.10 |
| Raptor Lake-S | i5-13400 | 10 | 2.5GHz | 20MB | 65 | 1.00.10 |
| Raptor Lake-S | i3-13100E | 4 | 3.3GHz | 12MB | 60 | 1.00.10 |
| Raptor Lake-S | i3-13100 | 4 | 3.4GHz | 12MB | 60 | 1.00.10 |
| Raptor Lake-S | i3-13100TE | 4 | 2.4GHz | 12MB | 35 | 1.00.10 |
| Alder Lake-S | i9-12900E | 16 | 2.3GHz | 30MB | 65 | 1.00.10 |
| Alder Lake-S | i9-12900 | 16 | 2.4GHz | 30MB | 65 | 1.00.10 |
| Alder Lake-S | i9-12900TE | 16 | 1.1GHz | 30MB | 35 | 1.00.10 |
| Alder Lake-S | i7-12700E | 12 | 2.1GHz | 25MB | 65 | 1.00.10 |
| Alder Lake-S | i7-12700 | 12 | 1.6GHz | 25MB | 65 | 1.00.10 |
| Alder Lake-S | i7-12700TE | 12 | 1.4GHz | 25MB | 35 | 1.00.10 |
| Alder Lake-S | i5-12500E | 6 | 2.9GHz | 18MB | 65 | 1.00.10 |
| Alder Lake-S | i5-12500 | 6 | 3.0GHz | 18MB | 65 | 1.00.10 |
| Alder Lake-S | i5-12500TE | 6 | 1.9GHz | 18MB | 35 | 1.00.10 |
| Alder Lake-S | i5-12400 | 6 | 2.5GHz | 18MB | 65 | 1.00.10 |
| Alder Lake-S | i3-12100E | 4 | 3.2GHz | 12MB | 60 | 1.00.10 |
| Alder Lake-S | i3-12100 | 4 | 3.3GHz | 12MB | 60 | 1.00.10 |
| Alder Lake-S | i3-12100TE | 4 | 2.1GHz | 12MB | 35 | 1.00.10 |
| Alder Lake-S | G7400E | 2 | 3.6GHz | 6MB | 46 | 1.00.10 |
| Alder Lake-S | G7400TE | 2 | 3.0GHz | 6MB | 35 | 1.00.10 |
| Alder Lake-S | G6900E | 2 | 3.0GHZ | 4MB | 46 | 1.00.10 |
| Alder Lake-S | G6900TE | 2 | 2.4GHz | 4MB | 35 | 1.00.10 |

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