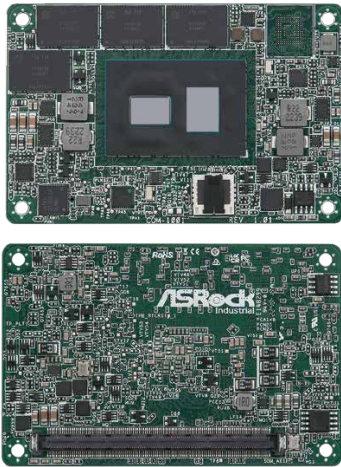




# COM-1001

COM Express

## KEY FEATURES

- Intel® Elkhart Lake SoC Processors
- 4 x 4GB IBECC onboard LPDDR4/4x 3200 MHz
- 4 x PCIe x1 (Gen3), 2 x USB 3.2 Gen2, 8 x USB 2.0, 2 x UART, 2 x SATA3
- 1 x Intel 2.5Gigabit LAN
- Supports Dual Display, 2 x DDI, 1x eDP, 1x DP or HDMI
- TPM 2.0 onboard IC (optional)
- ATX: 12V±5%/5Vsb±5%
- AT: 9~20V±5%

## SPECIFICATIONS

### Form Factor

|            |                                                                                |
|------------|--------------------------------------------------------------------------------|
| Dimensions | COM Express Type10<br>(2.2-in x 3.3-in x 0.32-in, 5.50 cm x 8.40 cm x 0.83 cm) |
|------------|--------------------------------------------------------------------------------|

### Processor System

|         |                                                                                                                                                                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU     | Intel® Elkhart Lake SoC Processors<br>COM-1001J (J6412, QC, Max Speed Up to 2.6GHz, 10W)<br>COM-1001D (J6426, QC, Max Speed Up to 3.0GHz, 10W)<br>COM-1001L (N6210, DC, Max Speed Up to 2.6GHz, 6.5W)<br>COM-1001N (N6415, QC, Max Speed Up to 3.0GHz, 6.5W) |
| Chipset | SoC                                                                                                                                                                                                                                                          |
| BIOS    | AMI SPI 256 Mbit                                                                                                                                                                                                                                             |

### Memory

|            |                                  |
|------------|----------------------------------|
| Technology | IBECC onboard LPDDR4/4x 3200 MHz |
| Capacity   | 16GB                             |

### Graphics

|              |                                                    |
|--------------|----------------------------------------------------|
| Controller   | Intel® Gen 11 Graphics                             |
| HDMI         | HDMI 2.0b<br>Max resolution up to 4096 x 2160@60Hz |
| DisplayPort  | DP 1.4<br>Max resolution up to 4096 x 2160@60Hz    |
| eDP          | eDP 1.3<br>Max resolution up to 4096 x 2160@60Hz   |
| MultiDisplay | Dual Display                                       |

### Expansion Slot

|      |                    |
|------|--------------------|
| PCIe | 4 x PCIe x1 (Gen3) |
|------|--------------------|

### Ethernet

|                   |                                        |
|-------------------|----------------------------------------|
| Controller/ Speed | 1 x Intel® I226V 10/100/1000/2500 Mbps |
|-------------------|----------------------------------------|

### I/O

|             |                                                                                            |
|-------------|--------------------------------------------------------------------------------------------|
| USB         | 2 x USB 3.2 Gen2, 8 x USB 2.0                                                              |
| COM         | Two UART Ports (SoC)<br>(UART2 share with CAN Bus, only supported by COM-1001D, COM-1001N) |
| GPIO        | 4 x GPI, 4 x GPO                                                                           |
| TPM         | TPM 2.0 onboard IC (optional)                                                              |
| eDP         | DDIO support eDP                                                                           |
| DisplayPort | DDI1 support DP/HDMI                                                                       |
| HDMI        | DDI1 support DP/HDMI                                                                       |
| Ethernet    | 1                                                                                          |
| CAN Bus     | 1 (share with UART2)<br>(Supported by COM-1001D, COM-1001N)                                |

### Storage

|      |                   |
|------|-------------------|
| SATA | 2 x SATA3 (6Gb/s) |
|------|-------------------|

### Watchdog Timer

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

### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | ATX: 12V±5%/5Vsb±5%<br>AT: 9~20V±5%                                                                                       |
| Power On  | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- ATX : Press button to PWR on after power input ready |

### Environment

|                    |                |
|--------------------|----------------|
| Operating Temp     | 0°C ~ 70°C     |
| Storage Temp       | -40° C ~ 85° C |
| Operating Humidity | 5% ~ 90%       |
| Storage Humidity   | 5% ~ 90%       |

## 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.

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