ASRock Industrial

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 (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 COM-1001J (J6412, QC, Max Speed Up to 2.6GHz, 10W) COM-1001D (J6426, QC, Max Speed Up to 3.0GHz, 10W) COM-1001L (N6210, DC, Max Speed Up to 2.6GHz, 6.5W) 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 Max resolution up to 4096 x 2160@60Hz
DisplayPort	DP 1.4 Max resolution up to 4096 x 2160@60Hz
eDP	eDP 1.3 Max resolution up to 4096 x 2160@60Hz
MultiDisplay	Dual Display

Expansion Slot

PCIe	4 x PCIex1 (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) (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	DDI0 support eDP
DisplayPort	DDI1 support DP/HDMI
HDMI	DDI1 support DP/HDMI
Ethernet	1
CAN Bus	1 (share with UART2) (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% AT: 9~20V±5%
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	0°C ~ 70°C
Storage Temp	-40° C – 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

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