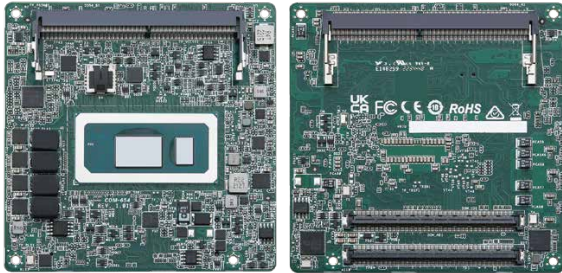




COM-654

COM Express

KEY FEATURES



- Intel® 12th Gen (Alder Lake-P) Core™ Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64GB (32GB per DIMM)
- 1 x PCIe x8 (Gen4) (Support by 45W CPU SKUs), 1 x PCIe x4 (Gen4), 4 x PCIe x1 (Gen3), 4 x USB3.2 Gen2, 8 x USB2.0, 2 x UART, 2 x SATA3
- 1 x Intel 2.5 Gigabit LAN
- Supports Quad display, 3 x DDI, 1 x VGA, 1 x LVDS or eDP (optional)
- TPM 2.0 onboard IC (optional)
- Supports Intel® vPro, AMT (For i7/i5 SKU), VMD RAID 0/1/5/10
- ATX: 12V±5%/5Vsb±5%
- AT: 12V±5%

SPECIFICATIONS

Form Factor

| | |
|------------|--|
| Dimensions | COM Express Type6 (3.74-in x 3.74-in x 0.52-in, 9.5 cm x 9.5 cm x 1.3 cm) |
|------------|--|

Processor System

| | |
|---------|---|
| CPU | Intel® 12th Gen (Alder Lake-P) Core™ Processors -COM-654P (i7-1265UE, 2P+8E) -COM-654M (i5-1245UE, 2P+8E) -COM-654V (i3-1215UE, 2P+4E) *45W CPU SKUs are available upon request |
| Chipset | MCP |
| BIOS | AMI SPI 256 Mbit |

Memory

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

Graphics

| | |
|--------------|---|
| Controller | Intel® Iris® Xe Graphics |
| HDMI | HDMI 2.1 Max resolution up to 4096x2160@60Hz |
| DisplayPort | DisplayPort 1.4a, DP++ Max resolution up to 4096x2304@60Hz |
| VGA | Max resolution up to 1920x1200@60Hz |
| LVDS | Dual channel 24 bit up to 1920 x 1200@60Hz |
| eDP | eDP1.4b Max resolution up to 4096 x 2304@60Hz (optional) |
| MultiDisplay | Quad Display |

Expansion Slot

| | |
|------|--|
| PCIe | 1 x PCIe x8 (Gen4) (Support by 45W CPU SKUs) 1 x PCIe x4 (Gen4) 4 x PCIe x1 (Gen3) |
|------|--|

Ethernet

| | |
|-------------------|---|
| Controller/ Speed | COM-654P / COM-654M: 1 x Intel® I225LM with 10/100/1000/2500 Mbps, support AMT/vPro COM-654V: 1 x Intel® I225LM with 10/100/1000/2500 Mbps |
|-------------------|---|

I/O

| | |
|-------------|---|
| HDMI | DDI1/2 support HDMI/DP |
| DisplayPort | DDI1/2 support HDMI/DP DDI3 support DP |
| VGA | 1 |
| LVDS | 1 |
| eDP | 1 (optional) |
| Ethernet | 1 x 2.5 Gigabit LAN |
| USB | 4 x USB 3.2 (Gen2), 8 x USB2.0 |
| COM | Two UART Ports |
| GPIO | 4 x GPI, 4 x GPO |
| TPM | TPM 2.0 onboard IC (optional) |

Storage

| | |
|------|---|
| SATA | 2 x SATA3 (6Gb/s) |
| RAID | SATA: Intel® VMD RAID 0/1 PCIe: Intel® VMD RAID 0/1/5/10 |

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: 12V±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 - 60°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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