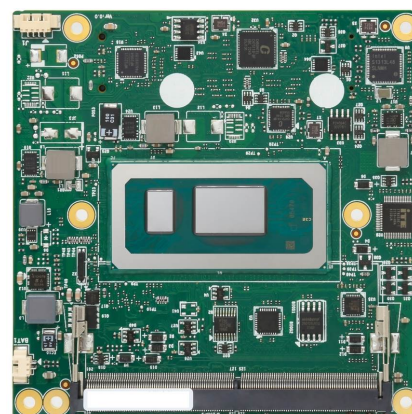


## Features

- Intel 12th Intel Core Alder Lake-P Processor
- 4 x USB 3.0, 1 x Intel Gigabit LAN
- 2 x DDR5 memory
- Support multiple high speed signals
- Support Vin 8.5V ~ 16V, VSB 4.75V ~ 5.25V



### Core System

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                   | Intel Core i7-1255U, 2P8E-core, up to 4.70 GHz<br>Intel Core i5-1235U, 2P8E-core, up to 4.40 GHz<br>Intel Core i3-1215U, 2P4E-core, up to 4.40 GHz |
| System Memory         | DDR5-4800 MHz, 2 x non-ECC SO-DIMM, up to 64GB                                                                                                     |
| Chipset               | SoC integrated                                                                                                                                     |
| BIOS                  | AMI                                                                                                                                                |
| Storage               | 2 x SATA 3.0                                                                                                                                       |
| Watchdog Timer        | 1 - 255 steps by software program                                                                                                                  |
| High Speed Signal     | 1 x PCIe Gen3 4 * x1/ 2 * x2/ 1 * x4 (BIOS optional)<br>2 x PCIe x1 Gen3<br>1 x PCIe x2 Gen4<br>1 x PCIe x4 Gen4                                   |
| Power Input           | Vin: 8.5V ~ 16V<br>VSB: 4.75V ~ 5.25V                                                                                                              |
| Smart Fan Control     | Supported                                                                                                                                          |
| Dimensions            | 95 x 95 mm (COM Express Type 6 Compact size)                                                                                                       |
| Operating Temperature | -20°C to +70°C                                                                                                                                     |
| Storage Temperature   | -40°C to +85°C                                                                                                                                     |
| Humidity              | 10% to 95% relative humidity, non-condensing                                                                                                       |

### Internal Connectors

|             |                                               |
|-------------|-----------------------------------------------|
| USB         | 4 x USB 3.2 Gen1<br>8 x USB 2.0               |
| Display I/O | 1 x VGA, 1 x eDP/LVDS, 3 x DDI                |
| Audio I/O   | Realtek Audio HDA Codec                       |
| Serial Port | 2 x TTL (TXD/RXD)                             |
| Ethernet    | 1 x Intel i225V LAN                           |
| GPIO        | Programmable support 8-bit GPIO               |
| Others      | 1 x I2C, 1 x LPC, 1 x SATA LED, 1 x Smart FAN |

### Graphics

|              |                                                                                                                                                                     |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chipset      | For i7, Intel Iris Xe Graphics, up to 96 EUs, 1.25GHz<br>For i5, Intel Iris Xe Graphics, up to 80 EUs, 1.20GHz<br>For i3, Intel UHD Graphics, up to 64 EUs, 1.10GHz |
| VGA          | Up to 1920 x 1080 @ 60Hz                                                                                                                                            |
| DVI          | -                                                                                                                                                                   |
| HDMI         | Up to 4096 x 2160 @ 48-60Hz                                                                                                                                         |
| Display Port | Up to 4096 x 2160 @ 60Hz                                                                                                                                            |
| LVDS         | Up to 1920 x 1200 @ 60Hz (Default)                                                                                                                                  |
| eDP (Option) | Up to 4096 x 2160 @ 60Hz                                                                                                                                            |

### Others

|                |                               |
|----------------|-------------------------------|
| OS Support     | Windows 10, Windows 11, Linux |
| Certifications | CE / FCC Class B              |

### Ordering Information

|               |                                                              |
|---------------|--------------------------------------------------------------|
| TH35-i3-1215U | With Intel Core i3-1215U processor, 2P4E-core, up to 4.40GHz |
| TH35-i5-1235U | With Intel Core i5-1235U processor, 2P8E-core, up to 4.40GHz |
| TH35-i7-1255U | With Intel Core i7-1255U processor, 2P8E-core, up to 4.70GHz |