

# ACM-8RP0

COM Express Type 6 Compact Size  
with 13th Generation Intel® Core™ i7/i5/i3 Processor SoC



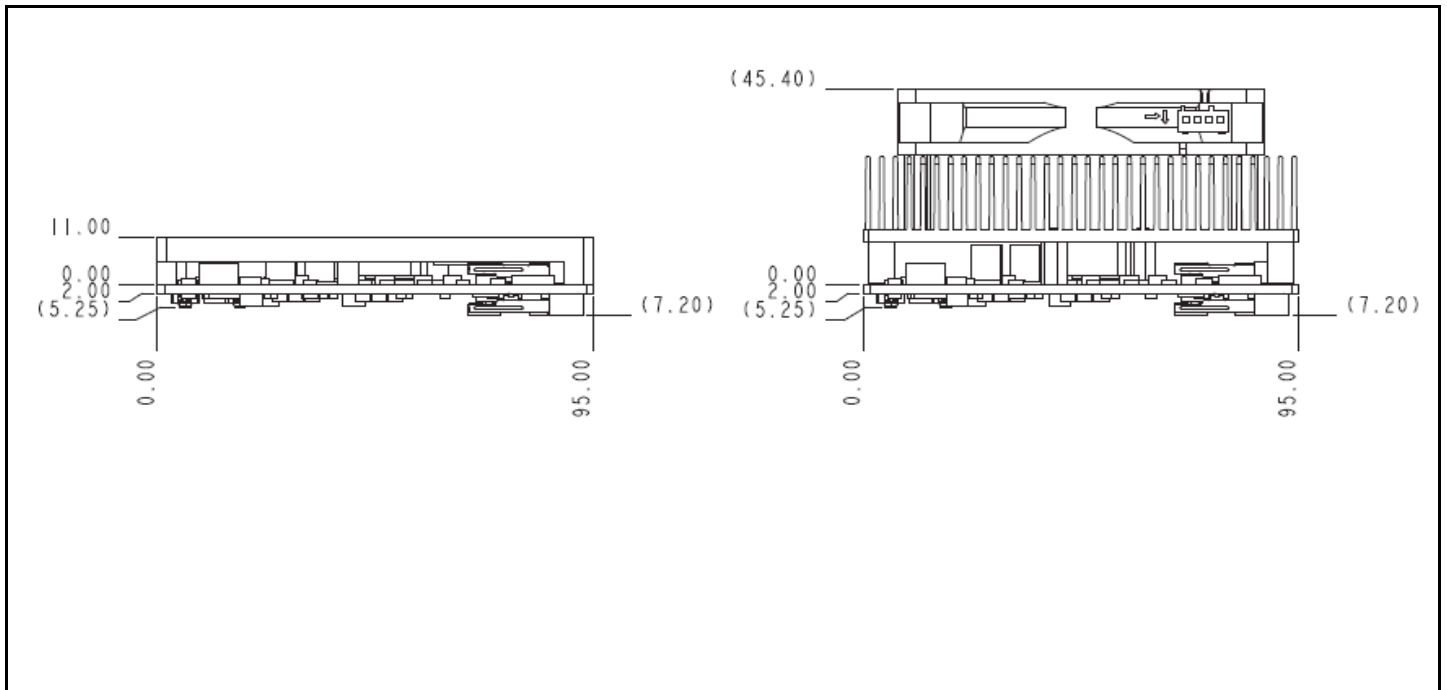
## Features

- 13th Generation Intel® Core™ i7/i5/i3 Processor SoC, max TDP 45W
- DDR5 SODIMM x 2, up to 64GB (non-ECC)
- Intel i226 2.5GbE x 1
- SATA 6.0Gbps x 2
- USB3.2 Gen2 x 4, USB2.0 x 8
- Up to 6 PCIe devices
- 12V DC input
- COM Express Type 6 95mm x 95mm

## Specifications

| System                      |  |
|-----------------------------|--|
| Form Factor                 | COM Express Compact Size, Type 6   |
| CPU                         | 13th Intel® Core™ Processor:<br>Intel® Core™ i7-13800HRE Processor (14C/20T, 2.5GHz, 45W, In-Band ECC)<br>Intel® Core™ i7-13800HE Processor (14C/20T, 2.5GHz, 45W)<br>Intel® Core™ i5-13600HE Processor (12C/16T, 2.7GHz, 45W)<br>Intel® Core™ i3-13300HE Processor (8C/12T, 2.1GHz, 45W)<br>Intel® Core™ i7-1370PE Processor (14C/20T, 1.9GHz, 28W)<br>Intel® Core™ i5-1340PE Processor (14C/16T, 1.8GHz, 28W)<br>Intel® Core™ i3-1320PE Processor (8C/12T, 1.7GHz, 28W)<br>Intel® Core™ i3-1315UE Processor (6C/8T, 1.2GHz, 15W)<br>Intel® Core™ U300 Processor (5C/6T, 1.1GHz, 15W) |
| Chipset                     | Integrated with Intel® SoC   |
| Memory                      | DDR5 Dual channel, SODIMM Socket x 2, non-ECC, up to 64GB (U Processor up to 4800MT/s, H/P Processor up to 5200 MT/s)  |
| Onboard Storage             | —  |
| BIOS                        | AMI UEFI   |
| Wake on LAN                 | Yes  |
| Watchdog Timer              | 255 Levels   |
| Dimension                   | 3.75" x 3.75" (95mm x 95mm)  |
| Security                    | TPM 2.0  |
| Power                       |  |
| Power Requirement           | +12V and +5VSB for ATX, +12V for AT  |
| Power Type                  | AT/ATX   |
| Power Consumption (Typical) | Intel® Core™ i7-13800HE, DDR5 32GB x 2, 8.30A@ +12V  |

| Display               |   |
|-----------------------|---|
| Graphics Controller   | Intel® Iris® Xe Graphics<br>Intel® UHD Graphics   |
| Video Output          | 4 Simultaneous Displays:<br>DDI x 3, up to 3840 x 2160<br>18/24-bit Single/Dual-Channel LVDS/eDP x 1, up to 1920 x 1080 / 3840 x 2160 @60Hz<br>VGA x 1, up to 1920 x 1080 |
| I/O                   |   |
| Ethernet              | Intel® Ethernet Controller I226 2.5GbE x 1  |
| Audio                 | High Definition Audio Interface   |
| USB Port              | USB 2.0 x 8<br>USB 3.2 Gen 2 x 4  |
| Serial Port           | 2-Wire UART x 2 (Tx/Rx)   |
| HDD Interface         | SATA 6.0Gbps x 2  |
| Expansion             | PCIe[x1] x 4 (Configurable by BIOS)+<br>PCIe[x4] x 1+PCIe[x8] x 1<br>(PCIe[x8] for H series CPU only)   |
| GPIO                  | 8-bit   |
| SMBus/I2C             | I2C x 1, SMBus x 1  |
| Environmental         |   |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C)   |
| Storage Temperature   | -40°F ~ 185°F (-40°C ~ 85°C)  |
| Operating Humidity    | 0% ~ 90% relative humidity, non-condensing  |
| EMC                   | CE/FCC Class A  |
| OS Support            | Windows® 11 (64-bit)<br>Linux Ubuntu 24.04/Kernel 6.11  |
| Weight                | 0.25 lb. (0.12Kg)   |



## Ordering Information

| Part Number / Item |                         |
|--------------------|-------------------------|
| ACM-8RP0-001       | Intel® Core™ i7-13800HE |
| ACM-8RP0-002       | Intel® Core™ i3-1320PE  |
| ACM-8RP0-003       | Intel® Processor U300E  |
| ACM-8RP0-004       |                         |