

Model Name : ESY-CI506

Mini PC

Revision History

| Date      | Revision | Page | Content      | By       |
|-----------|----------|------|--------------|----------|
| 2026/8/12 | 0.1      | All  | First Draft  | Annie Wu |
| 2026/8/18 | 0.2      | All  | Second Draft | Annie Wu |

ACT POWER TAIWAN  
Preliminary

# ESY-CI506

Mini PC

## Features

- CPU: Intel Core Ultra 5 Processor 125U
- Memory: DDR5 SO-DIMM slots x 1, up to 96GB
- Storage: M.2 M-Key 2280 x 1, PCIe 3.0 x 2 / SATA 3.0
- Input Voltage: DC 9–36V, 120W
- 5G: M.2 B-Key for 5G module
- Wifi: M.2 E-Key slot for Wi-Fi 7 module
- I/O Interface: Ethernet x 1, USB x 6, Type C x 1, DDR5 SO-DIMM x 2, M.2 2280 x 1, Wi-fi M.2 x 1, 5G M.2 x 1, Power Jack x 1
- Cooling: Fanless Design
- OS: Windows 11 IoT LTSC 2024

## Appearance



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Mini PC

## Specification

| System            |                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------|
| CPU               | Intel Core Ultra 5 Processor 125U                                                                                           |
| Memory            | DDR5 SO-DIMM slots x 2, up to 96GB total                                                                                    |
| Storage           | M.2 M-Key 2280 x 1, PCIe 3.0 x 2 / SATA 3.0                                                                                 |
| SIM Slot          | SIM Card Slot x 1                                                                                                           |
| Antennas          | External Antenna x 4                                                                                                        |
| 5G                | M.2 B-Key x 1 for 5G ( SRM825N)                                                                                             |
| Wi-Fi             | M.2 E-Key slot for Wi-Fi 7 module                                                                                           |
| TPM               | TPM 2.0 Supported ( Trusted Platform Module)                                                                                |
| Front Panel       | DC 9–36V Terminal Block x 1, Audio x 1, mDP x 1, HDMI x 1, RJ45 LAN x 2, USB Type-C (DP + USB) x 1, USB Type-A x 3, COM x 4 |
| Rear Panel        | USB Type-A x 4, GPIO Terminal Block x 1, Antenna Connector Hole x 4, Power Button x 1, LED Indicator x 2                    |
| Cooling           | Fanless                                                                                                                     |
| Power Voltage     | DC 9–36V, 120W                                                                                                              |
| Power Consumption | Approx. 70–75W                                                                                                              |
| Power Adapter     | 24V 5A                                                                                                                      |
| Dimension         | 174mm x 129mm x 86 mm                                                                                                       |
| Gross Weight      | 4Kg                                                                                                                         |
| Mounting          | Wall Mount with Keyhole Slots ( R2.5 / R4.5 mm)                                                                             |
| Case Material     | Aluminum                                                                                                                    |
| Chassis Color     | Black and Silver with Orange Accents                                                                                        |
| OS                | Windows 11 IoT LTSC 2024                                                                                                    |

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## Environment Compliance

|                     |                           |
|---------------------|---------------------------|
| Operating Temp.     | -10°C - +60°C             |
| Operation Humidity  | +5% - 90%, Non-Condensing |
| Storage Temperature | -20°C - +85°C             |
| Storage Humidity    | +5% - 90%, Non-Condensing |
| Certifications      | CE/FCC/RoHS               |

Environmental performance may vary according to the integration method or final integration scenario.

## Deliverables

|   |               |
|---|---------------|
| 1 | Mini PC       |
| 2 | Power Adapter |

## Ordering Information

| Model Name | Description | Unit |
|------------|-------------|------|
| ESY-CI506  | Mini PC     | 1    |