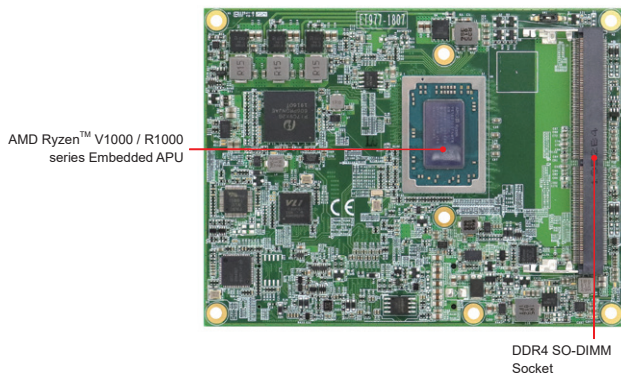


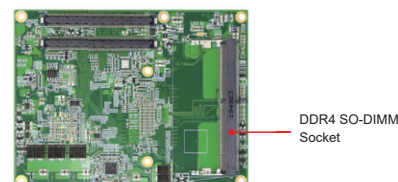


## Specifications

|                          |                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| CPU                      | AMD Ryzen™ Embedded V1000 / R1000 series                                                                                               |
| PCH                      | N/A                                                                                                                                    |
| Memory                   | 2x DDR4 SO-DIMM, Max. 32GB                                                                                                             |
| BIOS                     | AMI                                                                                                                                    |
| Watchdog Timer           | 256 levels                                                                                                                             |
| H/W Monitor              | Yes                                                                                                                                    |
| Storage Device Interface | N/A                                                                                                                                    |
| Expansion Slots          | V1000 Series:<br>1x PEG(8x)(Gen3), 4x PCIe(1x)(Gen3), 2x PCIe(1x)<br>R1000 Series:<br>1x PEG(4x)(Gen3), 3x PCIe(1x)(Gen3), 3x PCIe(1x) |
| Graphics Controller      | AMD Radeon™ Vega GPU integrated                                                                                                        |
| Video Output             | V1000 Series: 3x DDI<br>R1000 Series: 2x DDI<br>1x LVDS or 1x eDP (By option)                                                          |
| Ethernet                 | Intel® I211AT or I210AT Gigabit LAN                                                                                                    |
| I/O Chipset              | Fintek F81804U-I                                                                                                                       |
| Serial Port              | 2x UART (Tx/Rx only)                                                                                                                   |
| USB 2.0                  | 8x USB 2.0 Port [USB 2.0 Hub x 3 ports, (VL822-Q7)]                                                                                    |
| USB 3.X                  | 1x USB 3.1 port (10G), 3x USB 3.1 ports (VL822-Q7)                                                                                     |
| Serial ATA               | 2x SATA III via carrier board                                                                                                          |
| Audio                    | AMD Ryzen™ built-in HD audio controller                                                                                                |
| TPM                      | TPM (2.0)                                                                                                                              |
| Others                   | Digital I/O (4in/4-out)                                                                                                                |
| Dimensions (L X W)       | 125mm x 95mm (4.92" x 3.74")                                                                                                           |
| Power Consumption        | AMD V1605B w/ 2x 8GB DDR4-2133, +12V: 3.28A<br>AMD R1606G w/ 2x 8GB DDR4-2133, +12V: 3.43A                                             |
| Operating Temperature    | 0°C~60°C (32°F~140°F)                                                                                                                  |
| Storage Temperature      | -20°C~80°C (-4°F~176°F)                                                                                                                |
| Relative Humidity        | 90% (non-condensing @60°C)                                                                                                             |

## Features

- Onboard AMD Ryzen™ Embedded V1000/ R1000 Series
- 2x DDR4-2400 SO-DIMM sockets, Max. 32GB, ECC compatible
- Supports 4x independent displays (HDMI/DVI/ DisplayPort, LVDS, and eDP) via the carrier board
- 4x USB 3.1, 8x USB 2.0, 2x SATA III
- Supports TPM (2.0)



## Ordering Information

|              |                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| ET977-1605LV | COM Express (Type-6) CPU Module with AMD Ryzen™ V1605B QC APU (2.0GHz~3.6GHz), DDR4 dual-channel memory, LVDS support |
| ET977-1606LV | COM Express (Type-6) CPU Module with AMD Ryzen™ R1606G DC APU (2.6GHz~3.5GHz), DDR4 dual-channel memory, LVDS support |
| ET977-1505LV | COM Express (Type-6) CPU Module with AMD Ryzen™ R1505G DC APU (2.4GHz~3.5GHz), DDR4 dual-channel memory, LVDS support |
| HSET977-A    | Heatsink with fan for ET977                                                                                           |
| HSET977-1    | Heat spreader for ET977                                                                                               |

\*Specifications are subject to change without prior notice

## Dimensions and Drawing

