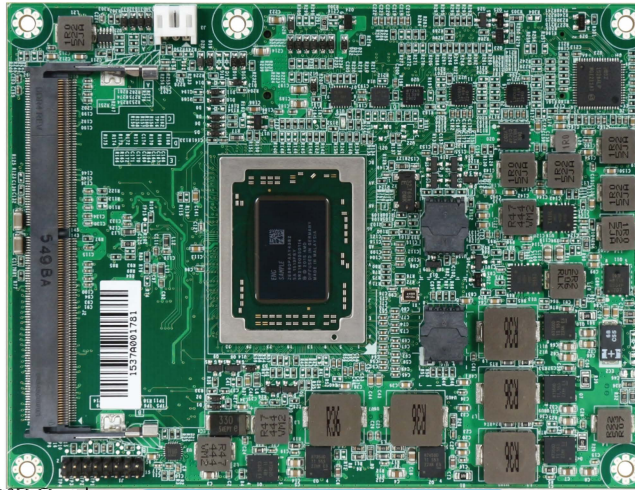


# MEDM-B601



Portwell MEDM-B601 is designed with AMD Quad Core R-Series SoC solution called APU which offers higher computing power and advanced graphic processing ability at lower TDP by introducing AMD 2nd generation heterogeneous system architecture(HSA) for the medical healthcare systems.

## FEATURES

- COM Express type VI, basic form factor
- SoC Solution with high performance processor and advanced multimedia and display features
- AMD Radeon HD 10000 graphics
- Support DDR4-2133 SO-DIMM, up to 16GB
- Support 1x Gen3 PCIe x8, 3x Gen2 PCIe x1
- Support Triple display
- Support 2x SATA3 and 4x USB3.0

### Form Factor

|                  |   |
|------------------|---|
| Form Factor      | COM Express Basic Module                            |
| Power Input Type | COM Express R2.1 Type 6 with +12V and 5VSB DC input |

### General

|                     |  |
|---------------------|--|
| Processor           | AMD® R-Series SoC<br>Dual Core RE216 3.0Ghz 15W<br>Quad Core RE418 3.2Ghz 15-35W<br>Quad Core RE421 3.4Ghz 35W |
| BIOS                | AMI BIOS, UEFI Architecture  |
| System Memory       | DDR4 260-PIN Horizontal SO-DIMM socket x2 (up to 16GB)<br>Support DDR4-2133 Maximum Speed @1.2V                |
| Storage Device      | Support SATAIII 6.0GB/sec x 2  |
| Watchdog Timer      | Programmable via S/W from 1sec. to 255min  |
| Hardware Monitoring | I2C control  |
| Expansion Interface | PCI Express x8 Interface x 1 from SoC chip<br>PCI Express x1 Interface x 3 from SoC chip                       |

### I/O Interface

|           |                                 |
|-----------|---------------------------------|
| Audio     | High Definition Audio Interface |
| Enthernet | Intel i211AT                    |
| USB       | USB 2.0 *8<br>USB 3.0 *4        |

### Display

|                    |                              |
|--------------------|------------------------------|
| Graphic Controller | AMD Radeon HD 10000 graphics |
| Display Interface  | DDI Interface *3             |

### Mechanical & Environment

|                   |   |
|-------------------|---|
| Dimension         | 125 mm x 95 mm (4.92" x 3.74")  |
| Environment       | Storage Temperature: -40 ~ 85°C<br>Operating temperature: 0 ~ 60°C with passive cooling<br>Operation Humidity: 5% ~ 95%, non-condensing |
| MTBF              | Over 120,000 hours at 40 °C   |
| EMI Certification | CE, FCC Class B   |