

# 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 Dual Core RE216 3.0Ghz 15W Quad Core RE418 3.2Ghz 15-35W Quad Core RE421 3.4Ghz 35W
BIOS	AMI BIOS, UEFI Architecture
System Memory	DDR4 260-PIN Horizontal SO-DIMM socket x2 (up to 16GB) 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 PCI Express x1 Interface x 3 from SoC chip

### I/O Interface

Audio	High Definition Audio Interface
Ethernet	Intel i211AT
USB	USB 2.0 *8 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 Operating temperature: 0 ~ 60°C with passive cooling Operation Humidity: 5% ~ 95%, non-condensing
MTBF	Over 120,000 hours at 40 °C
EMI Certification	CE, FCC Class B