

MEDS-TW100



The MEDS-TW100 is a powerful tower computer based on industrial ATX motherboard supporting Intel® Q170 chipset and desktop processor SKU like Intel® 6th Gen Core™ i3, i5 and i7. The MEDS-TW100 with Intel® 6th Gen Core™ processor features Intel's integrated graphic engine providing improved 3D multimedia capabilities and higher imaging quality to 4K image resolution. With supporting the great performing graphics cards, it opens up features like NVIDIA CUDA, DirectX® 12, OpenGL 4.4, HDMI 1.4, NVIDIA PureVideo HD Technology, NVIDIA PhysX. Hardware Video Decode Acceleration and Blu-Ray 3D. With supporting medical isolated LAN and built with flexible PCI expansions, MEDS-TW100 fits a variety of requirements that makes it specially designed for medical application.

FEATURES

- Intel® 6th Gen Core™ Processors
- Intel® Gen 9 graphic engine supports the latest graphics APIs, DirectX 12, and OpenGL 4.4
- Supports three independent displays - HDMI, DVI and VGA, with image resolution up to 4K (4096x2160@24Hz)
- Support RS-232, USB3.0, USB2.0, Gigabit Ethernet port
- Flexible PCI express expansion incorporating 1 PCIe x16 (Gen3), 2 PCIe x4 (Gen3), and 4 PCI slots for various accessory
- Optional accessories : Medical isolated LAN (IEC60601-1 compliant) and graphics card

System

M/B	RUBY-D718VG2AR
System Chipset	Intel® Q170
CPU	Intel® 6 th Gen Core™ Processors in LGA1151 package
BIOS	AMI uEFI BIOS (SPI ROM)
System Memory	Support up to 64GB DDR4 2133/1866 Non-ECC on four 288 pin DIMM socket
Storage	500GB HDD, 128GB or 256GB SSD
Watchdog Timer	Programmable via S/W from 1 sec. to 255 sec
H/W Status Monitor	- Temperature (CPU & System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	1x PCIe x16 Gen3, 2x PCIe x4 Gen3, 4x PCI

I/O Interface

Serial Port	- 1x RS232/422/485 port on Rear I/O - 1x RS232 port on Rear I/O - 4x RS232 ports on pin header
USB	- 4x USB3.0 ports on rear I/O - 2x USB3.0 and 8x USB2.0 ports on pin header
Audio	- Realtek ALC886 HAD codec/ Audio codec - Audio Jack on rear I/O with Line-in/ Line-out/ Mic-in
Ethernet	- Intel® I219LM and Intel® I210AT Ethernet controller - 2x RJ45 connectors on rear I/O
Keyboard & Mouse	PS/2 Keyboard & Mouse Pin Header
GPIO	8-bit configurable controlled by embedded controller
Other	Option TPM module with LPC pin header

Display

Graphic Controller	Intel® Gen 9 graphic engine supports DirectX 12, OpenGL 4.4
Display Interface	- DVI-D:One DP port on rear I/O, resolution up to 1920x1200 @ 60Hz - HDMI:One HDMI port on rear I/O, resolution up to 4K (4096x2160@24Hz) - VGA:One VGA port on rear I/O, resolution up to 1920x1200 @ 60Hz

Power Supply Unit

Power Input	350W, Dual +12V output (+12V/1, +12V/2)
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Environmental

Operation Temperature	-20°C to 50°C
Storage Temperature	-40°C to 80°C
Relative Humidity	95%@40°C, non-condensing
Operation Vibration	5Grms/5-500Hz, IEC 60068-2-64
Operation Shock	50G, 11 msec, IEC 60068-2-27

Mechanical

Dimension	201mm x 314.2mm x 396mm (WxHxD)
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Optional Accessory

Graphic card	MEDA-G105 (GPU : NVIDIA GeForce GT 740)
LAN card	MEDN-51040 (Medical Isolation according to IEC60601-1)

