



WADE-8077

Intel® 3rd Gen Atom™ (Cedar Trail) D2700 2.13GHz Processor based Mini-ITX Board with dual display, Gigabit Ethernet, Two SATA Ports, Four COM ports and Six USB Ports



FEATURES

- Intel® Atom™ D2700 Cedar Trail processor
- Intel® NM10 Chipset
- One 200-pin SO-DIMM supports single channel DDR3 SDRAM up to 4GB
- Dual display: VGA / LVDS / HDMI, 3rd display via PCI-Express x1 graphic card
- One Mini-PCI and one PCI-Express x1 expansion slot
- Two SATA

ORDERING GUIDE

WADE-8077	WADE-8077 Mini-ITX ESB.NM10 Chipset+D2700 Processor.w/DDR3 SDRAM/VGA/LVDS/HDMI, Dual GbE Ethernet/Audio
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GENERAL

Processor	- Intel® Atom™ D2700 (2.13GHz) Cedar Trail Dual Core Processor - Support Intel® Hyper-Threading Technology
Chipset	Intel® NM10, W83627DHG Chipset
BIOS	AMI BIOS
Memory	Support single channel up to 4GB DDR3 SDRAM on one 200-pin SODIMM socket
Storage Devices	- 2x SATA port 3.0Gb/s data transfer rate
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 min.
Hardware Monitoring	FAN Speed (CPU & System), Temperature (CPU & System), Voltage, Case open function
Expansion Interface	- 1x PCI Express x1 slot (Gen1, 2.5GT/s) - 1x Mini-PCI socket

I/O INTERFACE

Super IO	Winbond W83627DHG
Audio	- Intel® 945GSE built-in High Definition Audio up to 96-kHz 24-bit - Realtek ALC662-GR, 5.1 channels - Audio Jack DIP Light Pink/Lime
Ethernet	Gigabit Ethernet Controller
Serial Port	- 2x RS232 port on rear IO - 1x RS232/422/485 selectable on rear IO
USB	- 6x USB 2.0 ports on rear IO - 4x USB 2.0 ports on board with header - 480 Mb/s bus comprehends the high-speed / full-speed / low-speed data ranges
GPIO	Onboard programmable 8-bit Digital I/Os

DISPLAY

Display Interface	- VGA: dual channel 18-bit VGA, analog resolution up to 2048x1536 (QXGA) - LVDS: dual channel 18-bit LVDS, Digital LVDS resolution up to 1600x1200 (UXGA) - HDMI: One connector on rear IO
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Mechanical & Environment

Dimension	170(L) x 170(W) mm; 6.69"(L) x 6.69"(W)
Power Supply	-Typical: +12V(CPU)@0.17A;+12V@0.24A;+5V@1.31A;+3.3V@0.55A -Support ATX mode
Environment	- Operation Temperature: 0°C to 60°C - Relative Humidity: 10% to 90%, non-condensing
MTBF	Over 140,000 hours at 40°C