WADE-8072

FEATURES

- Intel® Atom™ N270 1.6GHz processor
- Intel® 945GSE and ICH7-M chipset
- One 200-pin SO-DIMM supports single channel DDR2 SDRAM up to 2GB
- Dual display: VGA / LVDS, 3rd display via expansion slot
- Two SATA, one Compact Flash socket & one IDE connector
- One PCI slot, one PCI-E x1 expansion slot and one Mini-PCIE socket
- Three RS232 ports and one RS232/422/485 port

Built with Intel® mobile 945GSE chipset, WADE-8072 takes advantage of Intel® Atom™ N270 technologies. WADE-8072 features with its low power and also can provide dual displays such as VGA and 24-bit LVDS. In addition, WADE-8072 has one SO-DIMM socket which supports DDR2 SDRAM, dual Gigabit Ethernet, four serial ports, two SATA, one LPT, one PCI slot and one PCI-Express x1 expansion. WADE-8072 is not only a suitable choice for fanless usage but also the best solution for Mobile POS, Medical, Industrial Control and Digital Signage applications.

SYSTEM

CPU	Intel® Atom™ N270 1.6GHz processor
FSB	533/667 MHz
BIOS	Award BIOS
System Chipset	Intel® 945GSE GMCH and ICH7-M Chipset
System Memory	One 200-pin SO-DIMM supports single channel DDR2 SDRAM up to 2GB
Storage	- 2 x SATA - 1 x IDE
SSD	1 x Compact Flash share the same channel with IDE and support UDMA 5 (At bottom side board edge)
Watchdog Timer	Programmable via S/W from 1sec. to 255min.
H/W Status Monitor	FAN Speed(CPU and System), Temperature(CPU and System), Voltage, Case open function
GPIO	Onboard programmable 8-bit Digital I/Os
Expansion	- 1 x PCI slot and one PCI-E x 1 slot - 1 x TPM pin header - 1 x Mini-PCIE socket

I/O

MIO	1 x IDE, 1 x LPT, 3 x RS232 ports, 1 x RS232/422/485 selectable, 1 x K/M, 1 x Mouse
USB	4 x USB 2.0 ports and 2 x USB 2.0 with header
Audio Interface	Mic-in, Line-out
Ethernet Interface	IEEE 802.3 10/100/1000BASE-T Gigabit Ethernet compliant (Realtek 8111D)

DISPLAY

Chipset	Intel® 945GSE GMCH Integrated Intel® GMA 950 graphics
Display Memory	Intel® DVMT 3.0 share system memory up to 128MB
Resolution	Analog Display: Up to 2048 x 1536 (QXGA) Digital LVDS: Up to 1600 x 1200(UXGA)
Multi Display	Dual Channel 24-bit output (Chrontel CH7308B) / VGA

MECHANICAL & ENVIRONMENTAL

Power Requirement	+12V(System) @ 0.35A; +5V(System) @ 2.44A; +3.3V(System) @ 0.82A
Operating Temperature	0~60°C
Operating Humidity	5%~95% non-condensing
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)

REAR I/O

KB/MS
RS232/422/485
Gigabit Ethernet
RS232
VGA
USB
Audio

SOLDER SIDE

CF socket on board edge

Mini-PCIE socket
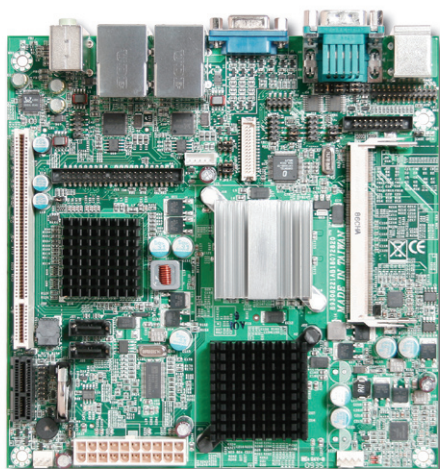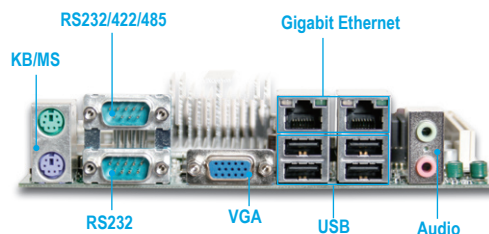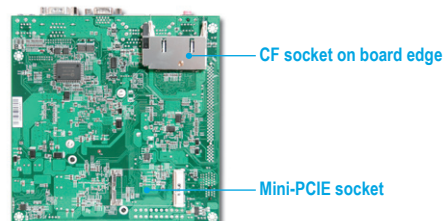
ORDERING GUIDE

- **WADE-8072**
  Intel® Low Power Atom™ N270 1.6GHz processor based Mini-ITX Board with dual display, Gigabit Ethernet, Two SATA ports, Four COM ports and Six USB ports