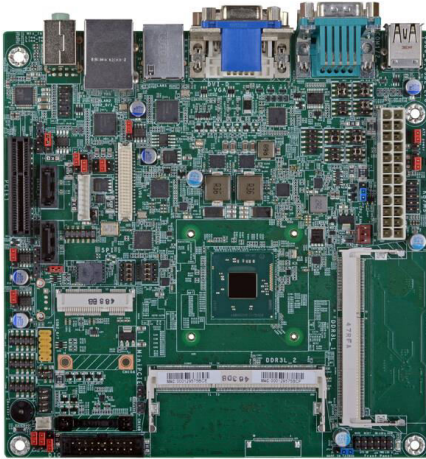


DFI -BT100 Industrial Mini ITX ATOM CPU



Features

Processor

Intel Atom® E3800 Series

RAM

2 DDR3L SODIMM up to 8GB (-E45/-J00)
1 DDR3L SODIMM up to 4GB (-E15)

Expansion

1 PCIe x4 (x1 signal)
1 Mini PCIe

Monitor

1 LVDS
1 DVI-I (DVI-D signal)
1 VGA

Speicherlösungen

2 SATA 2.0

Com I/O

2 LAN
6 COM
1 USB 3.0
6 USB 2.0
8-bit DIO

PROZESSOR

- Intel® Atom™/Intel® Celeron® processors
- BGA 1170 packaging technology
- 22nm process technology

SYSTEM MEMORY

- Two 204-pin DDR3L SODIMM sockets (-E45/-J00)

- up to 8GB system memory

- dual channel memory interface

One 204-pin DDR3L SODIMM socket (-E15)

- up to 4GB system memory

- single channel memory interface

- Supports DDR3L 1333MHz (-E45/-J00)

Supports DDR3L 1066MHz (-E15)

- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3L DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

Expansion Slots

- 1 PCIe x4 slot
 - x 1 signal
- 1 Mini PCIe slot
 - Supports USB and PCIe signals
 - Supports mSATA
 - Supports half size or full size Mini PCIe card

ONBOARD GRAFIC

- Intel[®] HD Graphics
- Display ports: 1 DVI-D, 1 VGA, 1 LVDS
- DVI-D: resolution up to 1920x1080 @ 60Hz
- VGA: 24-bit, resolution up to 1920x1200 @ 60Hz
- LVDS: NXP PTN3460, 24-bit, dual channel, resolution up to 1920x1200 @ 60Hz
- Supports hardware acceleration for DirectX 11, OCL 1.2, OGL 4.0, H.264, MPEG2, MVC, VC-1, WMV9 and VP8 (supported version dependent on OS)

I/O CONNECTORS

- 2 connectors for 3 external USB 2.0 ports; or 1 connector for 2 external USB 2.0 ports and 1 vertical USB 2.0/1.1 port*
 - 4 connectors for 4 external serial ports (2.0mm pitch)
 - 1 RS232/422/485 (RS232 and/or power), 3x RS232
 - 1 LVDS LCD panel connector
 - 1 LCD/inverter power connector
 - 1 8-bit DIO and/or power connector
 - 1 front audio connector for line-out and mic-in jacks
 - 1 S/PDIF connector
 - 1 PS/2 connector for keyboard/mouse port
 - 1 LPC connector
 - 1 SMBus connector*
 - 1 LAN LED connector
 - 2 Serial ATA connectors
 - 1 24-pin ATX power connector
 - 1 front panel connector
 - 1 chassis intrusion connector
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BIOS

- AMI BIOS
 - 64Mbit SPI BIOS

ENERGY EFFICIENT DESIGN

- Supports ErP Lot6 power saving*
- Supports ACPI
- System Power Management
- Wake-On-Events include:
 - Wake-On-USB/PS/2 KB/Mouse*
 - Wake-On-LAN
 - RTC timer to power-on the system
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors VCORE/12V/5V/DDR voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed

Power Consumption

- BT100-TC-E45: 12.18W with E3845 at 1.91GHz and 2x 4GB DDR3L SODIMM
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Temperature

- Operating
 - : 0°C to 60°C - Celeron (Fanless)
 - : -20°C to 70°C - Atom (Fanless with air flow)
 - : -40°C to 85°C - Atom (Fanless with air flow)
- Storage: -40°C to 85°C

Humidity

- 5% to 90%

MTBF

- 389,757 hrs @ 25°C; 216,205 hrs @ 45°C

OS Support

- **Windows 7 Ultimate x86 & SP1 (32-bit)**
 - **Windows 7 Ultimate x64 & SP1 (64-bit)**
 - **Windows 8.1 Enterprise x86 (32-bit)**
 - **Windows 8.1 Enterprise x64 (64-bit)**
 - **Windows 8.1 Embedded Pro x86 (32Bit)**
 - **Windows 8.1 Embedded Pro x64 (64Bit)**
 - **Windows 10 IoT LTSC (64bit)**
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