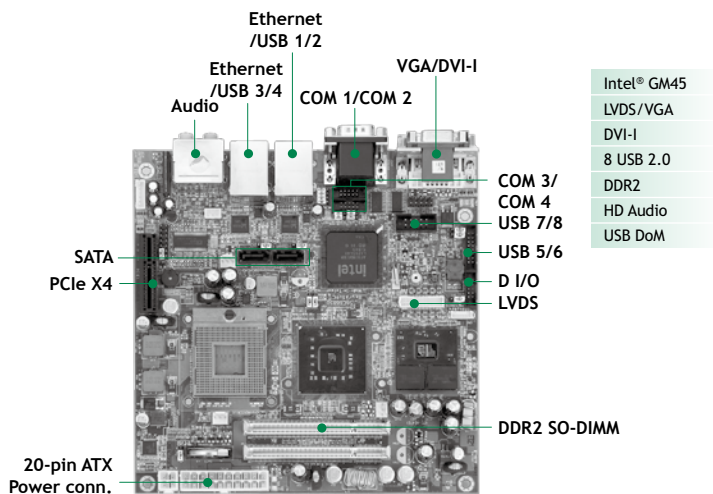


SBC86850

Socket P Intel® Core™2 Duo Mini ITX SBC with Intel® GM45 + ICH9M Chipset, ATI M72 Graphics Chip, DualView, DVI-I/LVDS and 4 COM

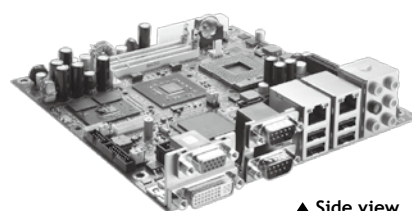


Intel® GM45
LVDS/VGA
DVI-I
8 USB 2.0
DDR2
HD Audio
USB DoM



Features

- Socket P for Intel® Core™2 Duo/ Celeron® M processor with FSB 667/800/1067 MHz
- High performance ATI M72 graphics chip onboard
- 4 COM ports for transaction terminal applications
- 8 USB 2.0 ports



System

| | |
|---------------------|--|
| CPU | Socket P for Intel® Core™2 Duo/ Celeron® M processor with FSB 667/800/1066 MHz |
| System Memory | 2 x 200-pin SO-DIMM support DDR2-667/800 max. up to 4 GB |
| Chipset | Intel® GM45 + ICH9M |
| Graphic Chip | ATI M72 graphics controller |
| BIOS | AMI |
| SSD | N/A |
| Watchdog Timer | 255 levels, 1-255 sec. |
| Expansion Interface | 1 x PCIe x4 slot supports 1 x PCIe x4 or 4 x PCIe x1 devices |
| Battery | Lithium 3V/220 mAH |
| Power Requirements | Intel® Core™2 Duo T9400 2.53 GHz, 2G DDR2 Max. RMS: +5V_SBY @ 0.069A, +3.3V @ 0.827A, +5V @ 2.115A, +12V @ 1.796A, -12V @ NA |
| Size | 170 x 170 mm |
| Board Thickness | 1.6 mm |
| Temperature | 0° C ~ +60° C (32° F ~ 140° F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x PS/2 keyboard and mouse 4 x RS-232; with +5V/+12V powered |
| SATA | 2 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROMs with Realtek RTL8111B |
| Audio | 7.1 channel HD Codec audio as MIC-in/Line-out/ Speaker-out with Realtek ALC888 |
| USB | 8 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control interface |
| Digital I/O | 8 channels IN/OUT programmable |

Display

| | |
|-------------------|--|
| Chipset | ATI Radeon™ HD 3200 Graphics (w/ ATI M72) Intel® GMA 4500HD graphics Core (w/o ATI M72) |
| Memory Size | 128 MB (w/ ATI M72) Intel® DVMT 5.0 compliant (w/o ATI M72) |
| Display Interface | w/ ATI M72: 1 x VGA 1 x LVDS; 18/24-bit single/dual channel 1 x DVI-I w/o ATI M72: 1 x VGA 1 x LVDS; 18/24-bit single/dual channel |

Packing List

| Standard | | |
|---|------------------------------------|-----|
| Quick installation guide, user's manual/utility CD, cable, CPU cooler | | |
| Cable | | |
| Part Number | Description | Qty |
| 593826A0000E | SATA signal cables 500mm | 1 |
| 59384500200E | COM x 2 w/ bracket, P=2.0, L=300mm | 1 |

Ordering Information

| Standard | |
|--------------------------|--|
| SBC86850DGGA w/ ATI M72 | Socket P Mini ITX SBC with DVI-I/LVDS LCD, 2 10/100/1000Mbps Ethernet, HD audio, 4 COM ports and ATI M72 graphics controller |
| SBC86850VGGA w/o ATI M72 | Socket P Mini ITX SBC with VGA/LVDS LCD, 2 10/100/1000Mbps Ethernet, HD audio, 4 COM ports |
| Optional | |
| E9C2D00016 | ATP Z-U130 USB DoM 1GB 10P(RC) |
| E9C2D00026 | ATP Z-U130 USB DOM 2GB 10P(RC) |