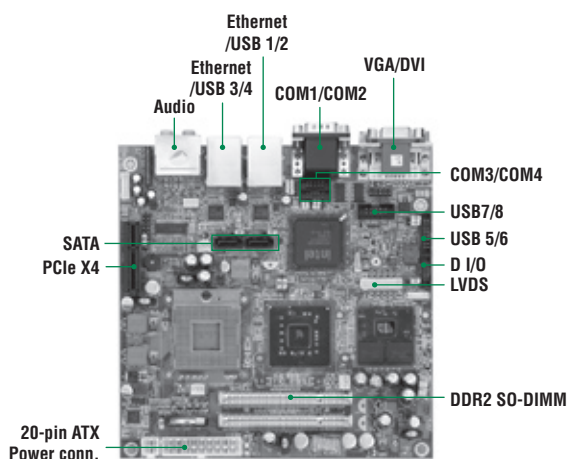


SBC86850

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

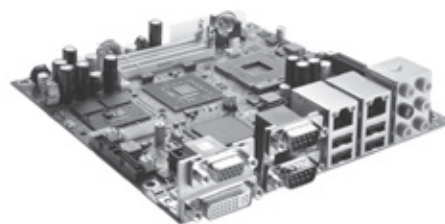


- Intel® GM45
- LVDS/CRT
- DVI-I
- 8 USB 2.0
- DDR2
- HD Audio
- USB DoM

Features



- ▶ Socket P for Intel® Core™2 Duo/Celeron® M processor with FSB 667/800/1067 MHz
- ▶ High performance ATI M72 graphic chip onboard
- ▶ 4 COM ports for transaction terminal applications
- ▶ 8 USB 2.0 ports
- ▶ TPM 1.2 for trusted platform



Side view

System

CPU	Intel® Core™2 Duo/Celeron® M Penryn processor with FSB 667/800/1067 MHz
System Memory	2 x 200-pin DDR2-667/800 SO-DIMM max. up to 4GB
Chipset	Intel® GM45+ICH9M chipset
Graphic Chip	ATI M72 graphic chip
BIOS	AMI 8Mbit with RPL/PXE LAN Boot ROM, SmartView and Customer CMOS Backup
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	PCI Express x4 slot for 1 PCIe x4 or 4 PCIe x1 expansion through riser (AX96144)
Battery	Lithium 3V/196mAH
Size	170 x 170 mm
Temperature	0°C~60°C (32°F~140°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x PS/2 keyboard 1 x PS/2 mouse 4 x RS-232 (COM 1~4); with +5V/+12V powered
SATA	2 x SATA-300
Hardware Monitoring	Support CPU/system temperature, CPU/system voltage, and CPU/system Smart Fan features
Ethernet	1 st and 2 nd 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; 4 ports via box-header with USB DiskOnModule supported
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	3 channel IN and 5 channel OUT

* W.T.: Wide Temperature

Display

Chipset	ATI M72 graphic chip
Memory Size	Onboard 128 MB memory
Resolution	* VGA: 2048 x 1536 @ 60Hz * DVI: up to 1080i; 1920 x 1080 * LVDS LCD: up to QXGA 2048 x 1536
Output Interface	* DVI-I connector for DVI-D and VGA output * VGA with D-sub 15-pin connector * LVDS LCD with 18/24 single/dual channel mode

Packing List

Quick installation guide, user's manual/utility CD, cable

Ordering Information

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

SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs > 5.25" Petit

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix