

MB-i9650

Features

- Processor : to support FSB 667/800Mhz Core 2 Duo Merom DC/SC cpu (INTEL)
- Support DDR2 533/667Mhz SDRAM up to 4GB
- Intel GM965 + Intel ICH8M chipset CRT,LCD, HDMI (DVI option by pin header) .
- 2 x 10/100/1000 Base-T Ethernet (PCIe * 1 interface) ,
- TPM 1.2 supporting
- 4 x serial SATA? (3 port from ICH8M , 1 port from Silicon Image 3132)
- 1 x eSATA port (controller by Silicon Image 3132)
- 1 x PATA ports by ICH8M
- **8 x USB 2.0 ports**
- 1 * PCI Express x 1 Lane slot
- 1 * PCI Express x 16 Lanes slot
- 2 * PCI Slot
- 1 x MiniPCI Type-III socket (TBD)
- Pb free version
- Watchdog Timer & hardware monitoring function, GPIO

SPECIFICATIONS 下記仕様は変更される可能性があります。

1.1 Main SPEC

Engineering Specification	
Product Name	MB-i9650 (Santa Rosa Platform)
Form Factor	microATX (244mm x 244mm) (9.6" x 9.8") →
Processor	Intel Mobile Merom Processor (support Socket P for Meron DC, SC processor, FSB 800 / 667Mhz) (IMVP-6+)
Chipset	NB : GM965 SB : Intel ICH8M chipset
System Memory	Support 2 x 240-pin DIMM up to 4GB DDR-II SDRAM (DDR2-533/667)
VGA/LCD Controller	24-bit LVDS, Dual-channel , CRT, HDMI / DVI option by pin header
MiniPCI interface	1 x miniPCI Type-III socket (TBD)
Ethernet	Integrated GbE MAC + Intel 82566DM (Nineveh) GbE PHY , 1 x LAN, Intel 82573V PCIe Gigabit LAN
BIOS	legacy FWH BIOS
Audio	Intel HD Audio , 8.1 channels , ALC883 codec
IDE Interface	1 x PATA 100 (Primary 40pin + 2 nd for CF socket) + 4 x SATA-II port + 1 x eSATA
Serial Port	6 x RS-232 (COM1/COM2 from SIO , COM3 ~ COM6 by Fintek F81216D UART Controller via LPC) , COM2 selectable by RS232/422/485 function
Parallel Port	SPP/ EPP/ ECP mode
K/B and Mouse	1 x PS2 K/B & Mouse
USB port	8 x USB 2.0 compliant (4 ports in I/O , 4 ports by header)
Watchdog Timer	255-Level Reset
GPIO x 16bit	8 in / 8 out
TPM 1.2 support	Infineon SLB9635TT via LPC
RTC	Support Real Time Clock
Extension slots	1* PCIe x 16 + 1 * PCIe x 1 + 2 * PCI
Operation Temp.	0°C ~ 60°C (32~140F)
FAN control	3 x 3 wire FAN control connector (+5V, +12V, GND, GND for each connector) , 1 for CPU, 1 for NB, 2 for Chassis , 1 for PCIe * 16 VGA card
Power input	ATX 2.0 (24pin)
Thermal Sensor	Is a must
PCB Layers	6 Layers

1.2 OS Support

Operation System	Support	Notes
DOS (include graphic and texture mode)		
Windows 95		
Windows 98		
Windows 98 SE		
Windows ME		
Windows NT4		
Windows 2000 Pro	✓	
Windows 2000 Server	✓	
Windows XP Pro	✓	
Windows Server 2003	✓	
Windows CE 3.0		
Windows CE.net		
Windows XP Embedded	✓	By customers request
Linux Red Hat	✓	
Windows Vista 32 / 64bit	✓	

1.3 Qualification Plan

Formal certification CE / FCC Class A

1.4 Ordering Information / Product Configuration (TBD)

MB-i9650 VLG

ATX Intel mobile Merom Processor SBC with GM965, VGA, SATA, eSATA , dual Gigabit LAN