

Re: Intel DG965SS MB ?

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2006-10/msg00625.html>

- *From:* Mike Tancsa <mike@xxxxxxxxxx>
 - *Date:* Tue, 31 Oct 2006 10:54:08 -0500
-

At 04:46 PM 10/27/2006, S=F8ren Schmidt wrote:

Mike Tancsa wrote:

Has anyone got this motherboard to work with=20
FreeBSD ? I tried fiddling with the BIOS but=20
no matter what, 6.2Beta does not see the ad0=20
(PATA drive) nor ad4 (SATA drive)... It never=20
sees the drive, although it does see the controller as a generic IDE=

controller

The intel product code is BOXDG965SSCK

Does this motherboard work in 7.x ?

Dont know that exact board, but the Gigabyte=20
965P- DS3 I've got here with the same chipset works fine.
The SATA ports on the ICH8 are fully supported and should work on any=

board.

However the ICH8 has *no* PATA port, so the PATA=20
port on mine is a JMicron chip which we support=20
including its extra 2 SATA ports.
Some Intel boards use Marvell chips that should=20
work as generic but early reports seems to indicate that is not the case.

I worked around it by installing to a SATA disk=20
on another box and booting from it. Looks like=20
you are right about the Marvell chip.

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FreeBSD 6.2-PRERELEASE #0: Fri Oct 27 18:03:52 EDT 2006
mdtanca@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/db
Timecounter "i8254" frequency 1193182 Hz quality 0
CPU: Intel(R) Core(TM)2 CPU 6400 @=20
2.13GHz (2144.00-MHz 686-class CPU)
Origin =3D "GenuineIntel" Id =3D 0x6f6 Stepping =3D 6
=
Features=3D0xbfebf6ff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,=
MCA,CMOV,PAT,PSE36,CLFLUSH,DTS,ACPI,MMX,FXSR,SSE,SSE2,SS,HTT,TM,PBE>
Features2=3D0xe3bd<SSE3,RSVD2,MON,DS_CPL,VMX,EST,TM2,<b9>,<b14>,<b15>

AMD Features=3D0x20100000<NX,LM>
AMD Features2=3D0x1<LAHF>
Cores per package: 2
real memory =3D 2120511488 (2022 MB)
avail memory =3D 2069848064 (1973 MB)
ACPI APIC Table: <INTEL DG965SS >
FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs
cpu0 (BSP): APIC ID: 0
cpu1 (AP): APIC ID: 1
ioapic0: Changing APIC ID to 2
ioapic0 <Version 2.0> irqs 0-23 on motherboard
kbd1 at kbdmux0
acpi0: <INTEL DG965SS> on motherboard
acpi0: Power Button (fixed)
Timecounter "ACPI-fast" frequency 3579545 Hz quality 1000
acpi_timer0: <24-bit timer at 3.579545MHz> port 0x408-0x40b on acpi0
cpu0: <ACPI CPU> on acpi0
acpi_throttle0: <ACPI CPU Throttling> on cpu0
cpu1: <ACPI CPU> on acpi0
acpi_throttle1: <ACPI CPU Throttling> on cpu1
acpi_throttle1: failed to attach P_CNT
device_attach: acpi_throttle1 attach returned 6
acpi_button0: <Sleep Button> on acpi0
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on acpi0
pci0: <ACPI PCI bus> on pcib0
pci0: <display, VGA> at device 2.0 (no driver attached)
pci0: <simple comms> at device 3.0 (no driver attached)
em0: <Intel(R) PRO/1000 Network Connection=20
Version - 6.1.4> port 0x30c0-0x30df mem=20
0x90300000-0x9031ffff,0x90324000-0x90324fff irq 20 at device 25.0 on pci0
em0: Ethernet address: 00:16:76:da:e4:0f
em0: [FAST]
uhci0: <UHCI (generic) USB controller> port=20
0x30a0-0x30bf irq 16 at device 26.0 on pci0
uhci0: [GIANT-LOCKED]
usb0: <UHCI (generic) USB controller> on uhci0
usb0: USB revision 1.0
uhub0: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1

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uhub0: 2 ports with 2 removable, self powered
uhci1: <UHCI (generic) USB controller> port=20
0x3080-0x309f irq 21 at device 26.1 on pci0
uhci1: [GIANT-LOCKED]
usb1: <UHCI (generic) USB controller> on uhci1
usb1: USB revision 1.0
uhub1: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub1: 2 ports with 2 removable, self powered
ehci0: <EHCI (generic) USB 2.0 controller> mem=20
0x90325400-0x903257ff irq 18 at device 26.7 on pci0
ehci0: [GIANT-LOCKED]
usb2: EHCI version 1.0
usb2: companion controllers, 2 ports each: usb0 usb1
usb2: <EHCI (generic) USB 2.0 controller> on ehci0
usb2: USB revision 2.0
uhub2: Intel EHCI root hub, class 9/0, rev 2.00/1.00, addr 1
uhub2: 4 ports with 4 removable, self powered
pci0: <multimedia> at device 27.0 (no driver attached)
pcib1: <ACPI PCI-PCI bridge> at device 28.0 on pci0
pci1: <ACPI PCI bus> on pcib1
pcib2: <ACPI PCI-PCI bridge> at device 28.1 on pci0
pci2: <ACPI PCI bus> on pcib2
atapci0: <GENERIC ATA controller> port=20
0x2018-0x201f,0x2024-0x2027,0x2010-0x2017,0x2020-0x2023,0x2000-0x200f=20
mem 0x90100000-0x901001ff irq 17 at device 0.0 on pci2
ata2: <ATA channel 0> on atapci0
ata3: <ATA channel 1> on atapci0
pcib3: <ACPI PCI-PCI bridge> at device 28.2 on pci0
pci3: <ACPI PCI bus> on pcib3
pcib4: <ACPI PCI-PCI bridge> at device 28.3 on pci0
pci4: <ACPI PCI bus> on pcib4
pcib5: <ACPI PCI-PCI bridge> at device 28.4 on pci0
pci5: <ACPI PCI bus> on pcib5
uhci2: <UHCI (generic) USB controller> port=20
0x3060-0x307f irq 23 at device 29.0 on pci0
uhci2: [GIANT-LOCKED]
usb3: <UHCI (generic) USB controller> on uhci2
usb3: USB revision 1.0
uhub3: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub3: 2 ports with 2 removable, self powered
uhci3: <UHCI (generic) USB controller> port=20
0x3040-0x305f irq 19 at device 29.1 on pci0
uhci3: [GIANT-LOCKED]
usb4: <UHCI (generic) USB controller> on uhci3
usb4: USB revision 1.0
uhub4: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub4: 2 ports with 2 removable, self powered
uhci4: <UHCI (generic) USB controller> port=20
0x3020-0x303f irq 18 at device 29.2 on pci0
uhci4: [GIANT-LOCKED]
usb5: <UHCI (generic) USB controller> on uhci4

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usb5: USB revision 1.0
uhub5: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub5: 2 ports with 2 removable, self powered
ehci1: <EHCI (generic) USB 2.0 controller> mem=20
0x90325000-0x903253ff irq 23 at device 29.7 on pci0
ehci1: [GIANT-LOCKED]
usb6: EHCI version 1.0
usb6: companion controllers, 2 ports each: usb3 usb4 usb5
usb6: <EHCI (generic) USB 2.0 controller> on ehci1
usb6: USB revision 2.0
uhub6: Intel EHCI root hub, class 9/0, rev 2.00/1.00, addr 1
uhub6: 6 ports with 6 removable, self powered
pcib6: <ACPI PCI-PCI bridge> at device 30.0 on pci0
pci6: <ACPI PCI bus> on pcib6
rl0: <RealTek 8139 10/100BaseTX> port=20
0x1000-0x10ff mem 0x90004800-0x900048ff irq 21 at device 0.0 on pci6
miibus0: <MII bus> on rl0
rphy0: <RealTek internal media interface> on miibus0
rphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
rl0: Ethernet address: 00:50:fc:34:57:cb
pci6: <serial bus, FireWire> at device 3.0 (no driver attached)
isab0: <PCI-ISA bridge> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci1: <Intel ICH8 SATA300 controller> port=20
0x1f0-0x1f7,0x3f6,0x170-0x177,0x376,0x3110-0x311f,0x3100-0x310f=20
irq 19 at device 31.2 on pci0
ata0: <ATA channel 0> on atapci1
ata1: <ATA channel 1> on atapci1
pci0: <serial bus, SMBus> at device 31.3 (no driver attached)
atapci2: <Intel ICH8 SATA300 controller> port=20
0x3128-0x312f,0x314c-0x314f,0x3120-0x3127,0x3148-0x314b,0x30f0-0x30ff,0x30e0=
-0x30ef=20
irq 19 at device 31.5 on pci0
ata4: <ATA channel 0> on atapci2
ata5: <ATA channel 1> on atapci2
fdc0: <floppy drive controller> port 0x3f0-0x3f5,0x3f0 irq 6 drq 2 on acpi0
fdc0: [FAST]
atkbd0: <Keyboard controller (i8042)> port 0x60,0x64 irq 1 on acpi0
atkbd0: <AT Keyboard> irq 1 on atkbd0
kbd0 at atkbd0
atkbd0: [GIANT-LOCKED]
sio0: <16550A-compatible COM port> port 0x3f8-0x3ff irq 4 flags 0x10 on=
acpi0
sio0: type 16550A
orm0: <ISA Option ROM> at iomem 0xc0000-0xcafff on isa0
ppc0: parallel port not found.
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=3D0x300>
sio1: configured irq 3 not in bitmap of probed irqs 0
sio1: port may not be enabled
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0

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Timecounters tick every 1.000 msec
ad0: 152627MB <Seagate ST3160812AS 3.AAD> at ata0-master SATA150
SMP: AP CPU #1 Launched!
Trying to mount root from ufs:/dev/ad0s1a
em0: link state changed to UP
em0: link state changed to DOWN
em0: link state changed to UP
em0: link state changed to DOWN
em0: link state changed to UP

```
[r6-32bit]# atacontrol info ata0
Master: ad0 <ST3160812AS/3.AAD> Serial ATA II
Slave: no device present
[r6-32bit]# pciconf -lv
hostb0@pci0:0:0: class=3D0x060000=20
card=3D0x514d8086 chip=3D0x29a08086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D bridge
subclass =3D HOST-PCI
none0@pci0:2:0: class=3D0x030000 card=3D0x514d8086=20
chip=3D0x29a28086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D display
subclass =3D VGA
none1@pci0:3:0: class=3D0x078000 card=3D0x514d8086=20
chip=3D0x29a48086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D simple comms
em0@pci0:25:0: class=3D0x020000 card=3D0x00018086=20
chip=3D0x104b8086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D network
subclass =3D ethernet
uhci0@pci0:26:0: class=3D0x0c0300=20
card=3D0x514d8086 chip=3D0x28348086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D serial bus
subclass =3D USB
uhci1@pci0:26:1: class=3D0x0c0300=20
card=3D0x514d8086 chip=3D0x28358086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D serial bus
subclass =3D USB
ehci0@pci0:26:7: class=3D0x0c0320=20
card=3D0x514d8086 chip=3D0x283a8086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D serial bus
subclass =3D USB
none2@pci0:27:0: class=3D0x040300=20
card=3D0x21148086 chip=3D0x284b8086 rev=3D0x02 hdr=3D0x00
```

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```
vendor =3D 'Intel Corporation'  
class =3D multimedia  
pcib1@pci0:28:0: class=3D0x060400=20  
card=3D0x00000040 chip=3D0x283f8086 rev=3D0x02 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
class =3D bridge  
subclass =3D PCI-PCI  
pcib2@pci0:28:1: class=3D0x060400=20  
card=3D0x00000040 chip=3D0x28418086 rev=3D0x02 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
class =3D bridge  
subclass =3D PCI-PCI  
pcib3@pci0:28:2: class=3D0x060400=20  
card=3D0x00000040 chip=3D0x28438086 rev=3D0x02 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
class =3D bridge  
subclass =3D PCI-PCI  
pcib4@pci0:28:3: class=3D0x060400=20  
card=3D0x00000040 chip=3D0x28458086 rev=3D0x02 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
class =3D bridge  
subclass =3D PCI-PCI  
pcib5@pci0:28:4: class=3D0x060400=20  
card=3D0x00000040 chip=3D0x28478086 rev=3D0x02 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
class =3D bridge  
subclass =3D PCI-PCI  
uhci2@pci0:29:0: class=3D0x0c0300=20  
card=3D0x514d8086 chip=3D0x28308086 rev=3D0x02 hdr=3D0x00  
vendor =3D 'Intel Corporation'  
class =3D serial bus  
subclass =3D USB  
uhci3@pci0:29:1: class=3D0x0c0300=20  
card=3D0x514d8086 chip=3D0x28318086 rev=3D0x02 hdr=3D0x00  
vendor =3D 'Intel Corporation'  
class =3D serial bus  
subclass =3D USB  
uhci4@pci0:29:2: class=3D0x0c0300=20  
card=3D0x514d8086 chip=3D0x28328086 rev=3D0x02 hdr=3D0x00  
vendor =3D 'Intel Corporation'  
class =3D serial bus  
subclass =3D USB  
ehci1@pci0:29:7: class=3D0x0c0320=20  
card=3D0x514d8086 chip=3D0x28368086 rev=3D0x02 hdr=3D0x00  
vendor =3D 'Intel Corporation'  
class =3D serial bus  
subclass =3D USB  
pcib6@pci0:30:0: class=3D0x060401=20  
card=3D0x00000050 chip=3D0x244e8086 rev=3D0xf2 hdr=3D0x01  
vendor =3D 'Intel Corporation'  
device =3D '82801BA/CA/DB/DBL/EB/ER/FB=20
```

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(ICH2/3/4/4/5/5/6), 6300ESB Hub Interface to PCI Bridge'
class =3D bridge
subclass =3D PCI-PCI
isab0@pci0:31:0: class=3D0x060100=20
card=3D0x514d8086 chip=3D0x28108086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D bridge
subclass =3D PCI-ISA
atapci1@pci0:31:2: class=3D0x01018a=20
card=3D0x514d8086 chip=3D0x28208086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D mass storage
subclass =3D ATA
none3@pci0:31:3: class=3D0x0c0500=20
card=3D0x514d8086 chip=3D0x283e8086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D serial bus
subclass =3D SMBus
atapci2@pci0:31:5: class=3D0x010185=20
card=3D0x514d8086 chip=3D0x28258086 rev=3D0x02 hdr=3D0x00
vendor =3D 'Intel Corporation'
class =3D mass storage
subclass =3D ATA
atapci0@pci2:0:0: class=3D0x01018f=20
card=3D0x610111ab chip=3D0x610111ab rev=3D0xb1 hdr=3D0x00
vendor =3D 'Marvell Semiconductor (Was: Galileo Technology Ltd)'
class =3D mass storage
subclass =3D ATA
r10@pci6:0:0: class=3D0x020000 card=3D0x813910ec=20
chip=3D0x813910ec rev=3D0x10 hdr=3D0x00
vendor =3D 'Realtek Semiconductor'
device =3D 'RT8139 (A/B/C/810x/813x/C+) Fast Ethernet Adapter'
class =3D network
subclass =3D ethernet
none4@pci6:3:0: class=3D0x0c0010 card=3D0x514d8086=20
chip=3D0x8023104c rev=3D0x00 hdr=3D0x00
vendor =3D 'Texas Instruments (TI)'
device =3D 'TSB43AB22/A IEEE1394a-2000 OHCI PHY/Link-Layer Ctrlr'
class =3D serial bus
subclass =3D FireWire
[r6-32bit]# =20

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