

IT8711F Application Circuit V0.2

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REVISION HISTORY

SCHEMATIC REVISION	PCB REVISION	MODIFICATION ITEMS	DRAWING AND MODIFICATION DESCRIPTION	DATE
IT-8711-CG-S01 VER 0.1	N/A	First Draft	For INTEL Chipset	April 17,2001
IT-8711-CG-S01 VER 0.2	N/A	1. Modify U1 Pin27 Connect to 3VSB 2. Adding VID Circuit 3. Modify R11 & R12 from 22 ohm to 4.7K ohm 4. Modify R33 & RN8 from 1k ohm to 150 ohm 5. Add JP8 for Keyboard/Mouse Power supplied by VCC/VCCH 6. Add Layout/Routing Guidelines for 3VSB circuit 7. Swap IT8711 Pin67 and Pin68 off-page connector label		June 21,2001

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Power On Strapping

JP1 : This power-on strapping pin is reserved for ITE test.
During LRESET#, a pull-up on this pin is needed.
JP2 : 1-2 : Enable KBC
2-3 : Disable KBC
JP3 : 1-2 : Base Address = 2Eh/2Fh
2-3 : Base Address = 4Eh/4Fh

Note : VREF Pull-up to +5V for Game Port Reference

JP4 :
1-2 for Keyboard
2-3 for CIRTX
NOTE : Only one function (Keyboard lock or
CIRTX) could be select at the same time

KBLK#
KBLK#/CIRTX
CIRTX

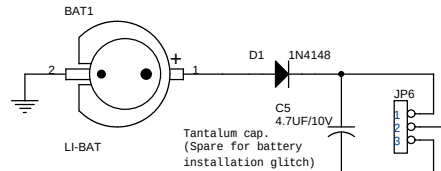
JP5
Keyboard Lock Jumper

Pin GA20 & KBRST#
connect to South
Bridge

Power Control Signals.
Please reference Power Control Suggestion
Applications Circuitry of page 5.

PC Board Layout Checklist

.Place BC3 close to IT8711F
.Recommended net "3VSB" minimum trace width 12mils



PC Board Layout Checklist

.Place C3 close to IT8711F
.Recommended net "VBAT" minimum trace width 12mils
.Isolated the VBAT pin29 and Chipset

IT8711F

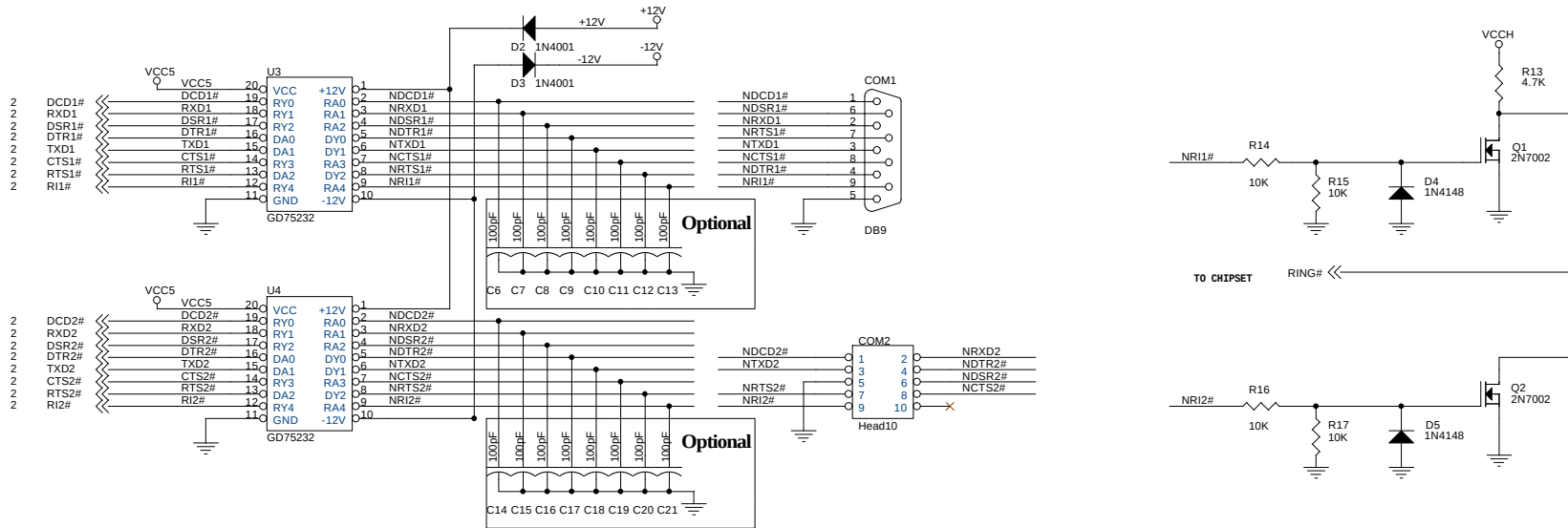
Low Pin Count (LPC) Interface Signals

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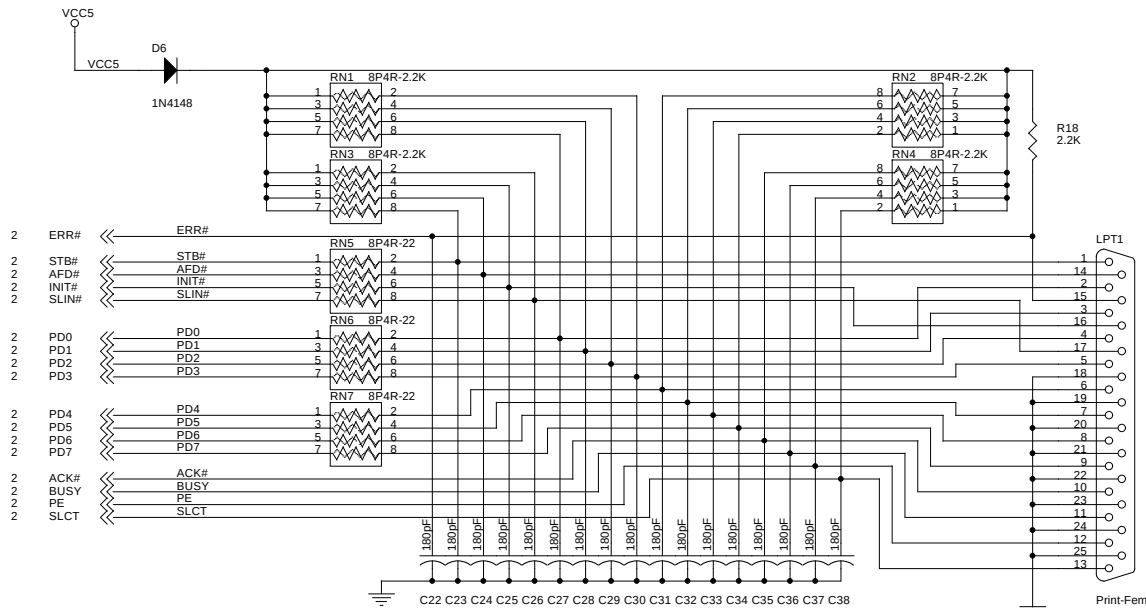
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Serial Ports



Parallel Port



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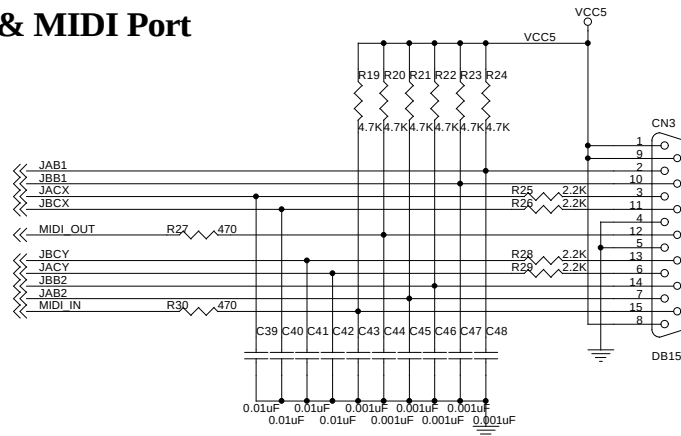
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```
2 JAB1
2 JBB1
2 JACX
2 JBCX

2 MIDI_OUT

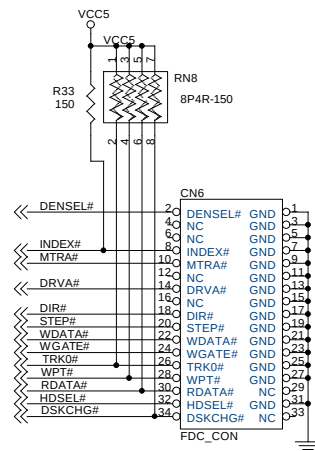
2 JBCY
2 JACY
2 JBB2
2 JAB2
2 MIDI_IN
```



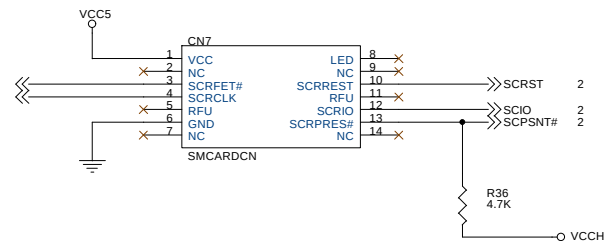
```

2 DENSEL#
2 INDEX#
2 MTRA#
2 DRVA#
2 DIR#
2 STEP#
2 WDATA#
2 WGATE#
2 TRK0#
2 WPT#
2 RDATA#
2 HDSEL#
2 DSKCHG#

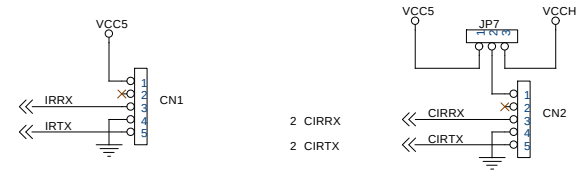
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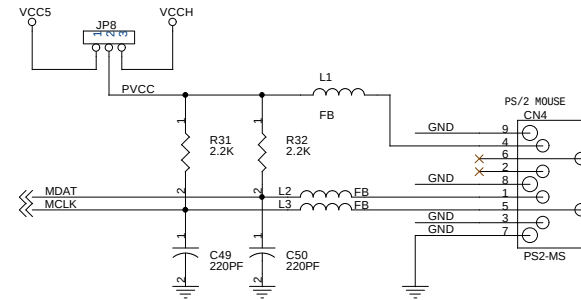
```
2 SCPWR
3 SCCLK
```



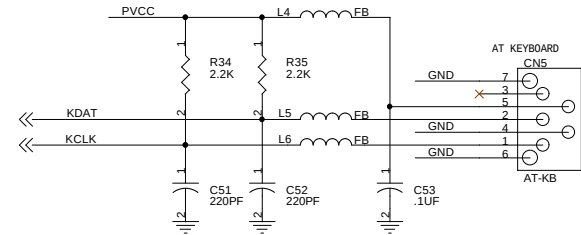
2 IRRX
2 IRTX



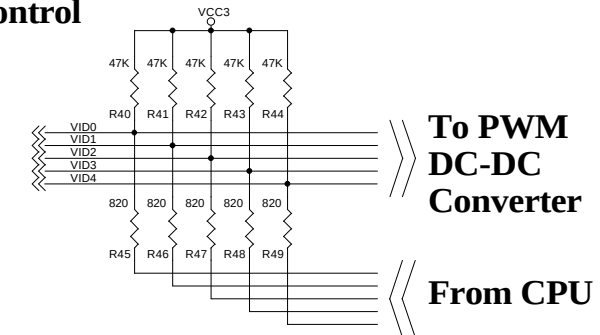
2 MDAT



2 KDAT



```
2 VID0
2 VID1
2 VID2
2 VID3
2 VID4
```



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LAYOUT/ROUTING GUIDELINES

1. For clock Lines :

- 1) If possible, please avoid using any through-hole.
- 2) Please make the trace length short, and the trace width wide enough.
- 3) The spacing to the closest neighbor should be wide enough.
- 4) The discrete damping resistors and capacitors are recommended.
- 5) Please don't share the I/O clock, 24/48MHz, with other device.

2. For the VBAT circuits :

- 1) Place the 1uF capacitor of VBAT pin close to ITE I/O chip.
- 2) VBAT should be routed with a minimum trace width of 12 mils.
- 3) Isolate the VBAT pin of ITE I/O chip from the pin G1/VCCRTC of INTEL's ICH with diode.
- 4) The 4.7uF/10V tantalum capacitor connected to the diode of battery is spare for battery installation glitches.

3. For the 3VSB circuits :

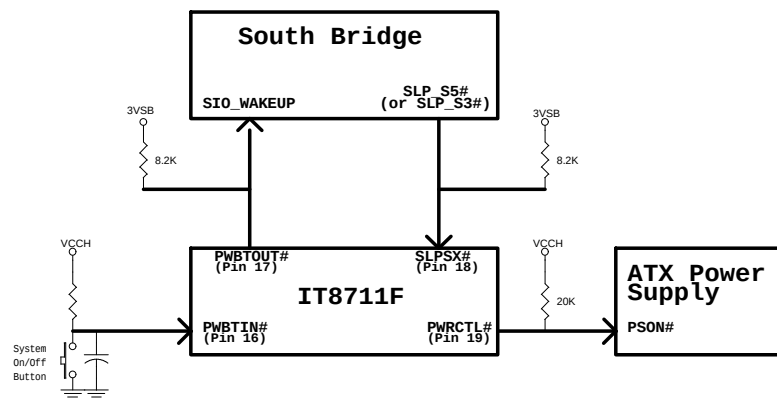
- 1) Place the 0.1uF capacitor of pin27 close to ITE I/O chip.
- 2) 3VSB should be routed with a minimum trace width of 12 mils.

4. Please don't remove the pull-up resistor of LDRQ#.

5. Please don't change the resistors and capacitors values in the Game and MIDI circuits.

6. The physical pin layout of Smart Card Reader connector MUST match with the pin arrangement of the 2x7 connector in ITE schematics.

7. IT8711F Power Control Suggestion Applications Circuitry.



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