

Serial Interfaces

J1, J3 *Top View*

1	+3.3V
2	Tx
3	Rx
4	GND

SPI Interfaces

J2, J4 *Top View*

1	MISO	+3.3V	2	<i>MISO is Master In, Slave Out</i>
3	SCK	MOSI	4	<i>MOSI is Master Out, Slave In</i>
5	RST#/CS#	GND	6	

This pinout is used by J2 and J4 in the laptop. J2 is a slave connector, allowing in-system programming (ISP) of the onboard SPI ROM. J4 is a master connector. This pinout is defined by Atmel App. Note AVR910.

LPC Debug

DL1 *Top View*

1	+3.3V
2	LPCD0
3	LPCD1
4	LPCD2
5	LPCD3
6	LPC_FRAME#
7	RESET#
8	GND
9	LPCCLK
10	GND

Use of both ground pins is recommended for proper operation.

Camera

CON1 *Top View*

1	Cam_PWRDN
2	PIXDATA7
3	PIXDATA6
4	PIXDATA5
5	PIXDATA4
6	GND
7	PIXDATA3
8	PIXDATA2
9	PIXDATA1
10	PIXDATA0
11	I2C_CLK
12	MCLK
13	I2C_DATA
14	+2.8V
15	+1.8V
16	PIXCLK
17	Cam_RESET
18	Cam_VSYNC
19	Cam_HSYNC
20	GND

Keyboard/Touchpad

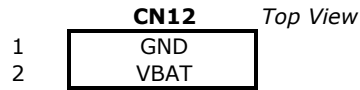
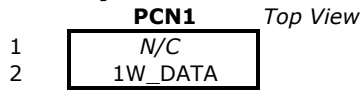
CN11 *Top View*

1	TP_DAT
2	TP_CLK
3	GND
4	KBD_DAT
5	KBD_CLK
6	+3.3V

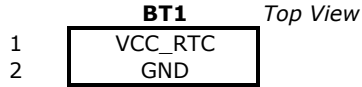
The keyboard and touchpad use PS/2 protocol interfaces

Connectors

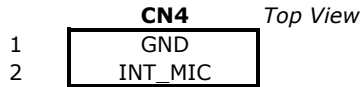
Main Battery



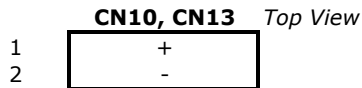
RTC Battery



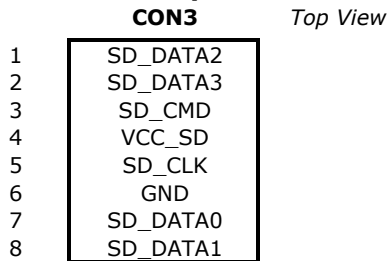
Internal Microphone



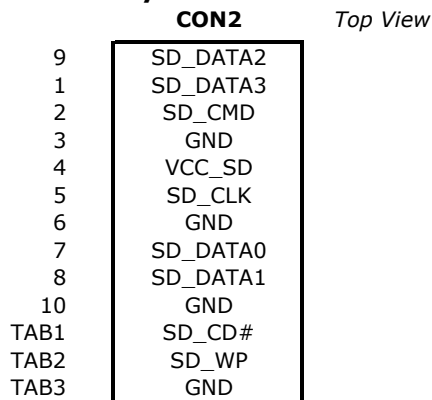
Speakers



Internal microSD/MMC

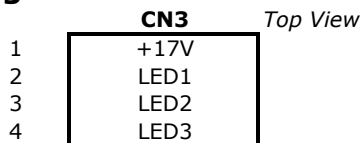


External SD/MMC



The SD connector pins are not numbered sequentially. In addition, two of the signal pins (TAB1/TAB2) appear to be mounting tabs along the edge.

Backlight



Connectors

LCD

CN7		<i>Top View</i>	CN7 (cont.)	
1	VCOM		29	GMA8-1
2	VCOM		30	GMA6-1
3	-7V		31	GMA5-1
4	+9.6V		32	GMA3-1
5	GND		33	GMA1-1
6	GMA10-2		34	GND
7	GMA8-2		35	+1.8V
8	GMA6-2		36	FD00
9	GMA5-2		37	FD01
10	GMA3-2		38	FD10
11	GMA1-2		39	FCLK
12	GND		40	FREV
13	+1.8V		41	FD11
14	BD00		42	FD20
15	BD01		43	FD21
16	BD10		44	FSTH
17	BCLK		45	FTP1
18	BREV		46	FPOL
19	BD11		47	VCOM
20	BD20		48	XAO
21	BD21		49	OE
22	BSTH		50	CKV
23	BTP1		51	STV
24	BPOL		52	+1.8V
25	VCOM		53	-7V
26	+9.6V		54	+18V
27	GND		55	GND
28	GMA10-1			

WLAN Card

CN19		<i>Top View</i>
1	SD_CLK +3.3V	2
3	SD_CMD GND	4
5	SD_DAT0 WLAN_RST#	6
7	SD_DAT1	8
9	SD_DAT2 PowerDown#	10
11	SD_CD# (GND)	12
13	SD_DAT3 +3.3V	14
15	LED_WLAN# +3.3V	16
	<i>key</i>	
17	GND GND	18
19		20
21	Host_Select1	22
23	GND	24
25		26
27		28
29	GND +3.3V	30
31		32
33	GND	34
35	ECS# USB-	36
37	GND USB+	38
39	GND	40
41	Host_Select2	42
43	GND	44
45		46
47		48
49		50
51		52

Connectors

VGA

		CN5	
Board	5	GND	EDID_CLK
	10	GND	N/C
	14	VSYNC	+5V
	3	BLUE	HSYNC
	8	GND	GREEN
	12	EDID_DATA	GND
	1	RED	N/C
	6	GND	

Top View

15 This connectors is not populated in production.
 4 Additional components necessary for analog video out
 9 are also not populated.

IDE

		CN6	
Board	1	N/C	N/C
	3	IDERST#	GND
	5	D7	D8
	7	D6	D9
	9	D5	D10
	11	D4	D11
	13	D3	D12
	15	D2	D13
	17	D1	D14
	19	D0	D15
	21	GND	DREQ
	23	GND	IOW
	25	IOR	GND
	27	IORDY	GND
	29	DACK	IRQ#
	31	A1	DIAG#
	33	A0	A2
	35	CS1	CS3
	37	HDDLED#	+3.3V
	39	+3.3V	N/C

Top View

2 This connector is not populated in production
 4 laptops.
 6
 8