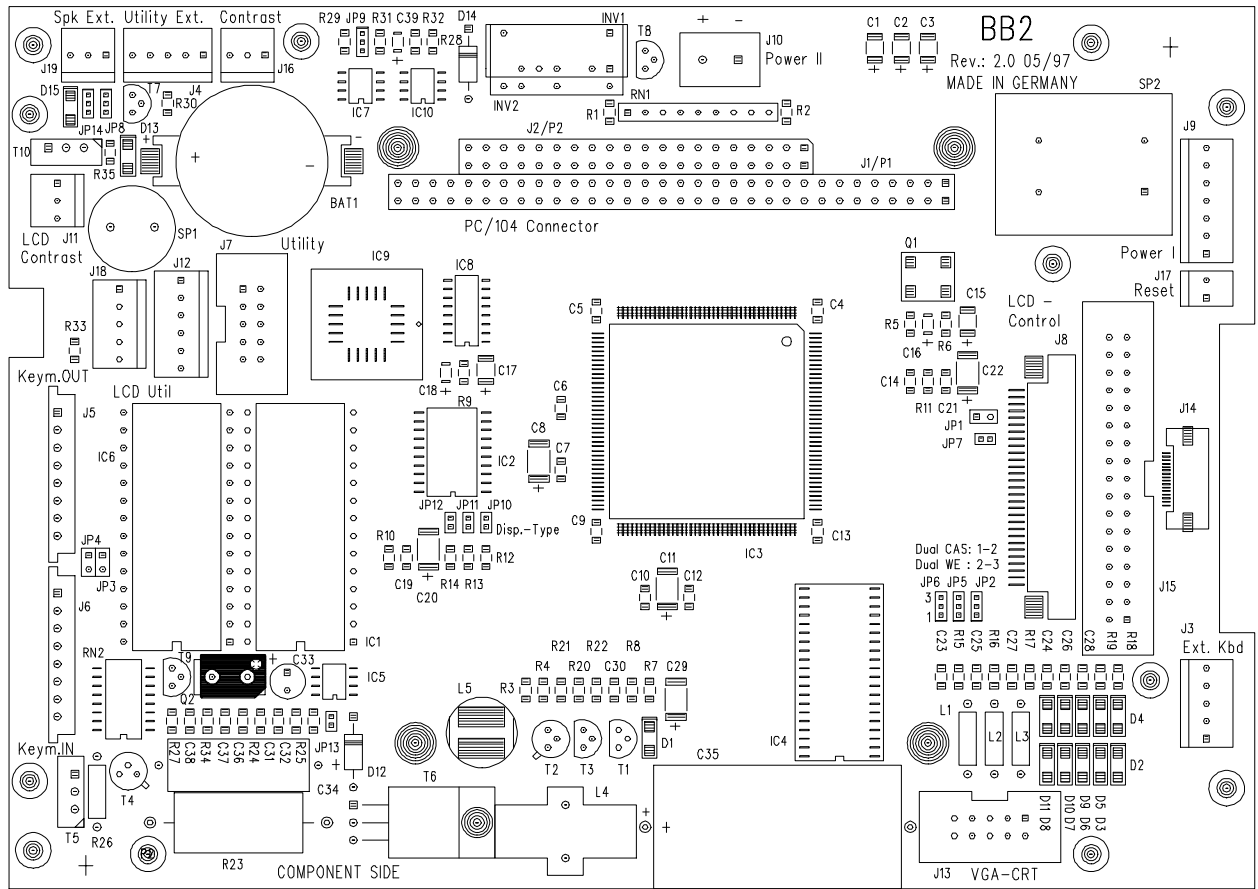
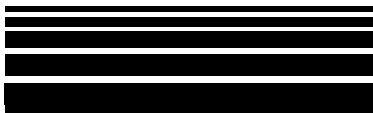


## BB2 BASE BOARD CONNECTORS



BB2 CONNECTOR	FUNCTION
J1	PC/104 BUS
J2	PC/104 BUS, 16 BIT EXTENTION
J3	EXT. KEYBOARD
J4	EXT. UTILITY
J5	KEYMATRIX OUT
J6	KEYMATRIX IN
J7	UTILITY (CPU-CONNECTOR)
J8	LCD CONTROL, MONOCHROM
J9	POWER INPUT
J10	POWER
J11	LCD BRIGHTNESS
J12	LCD TFT UTILITY
J13	VGA CRT
J14	LCD CONTROL, MONOCHROM
J15	LCD CONTROL, TFT COLOR
J16	LCD CONTRAST
J17	RESET
J18	LCD UTILITY
J19	EXT. SPEAKER



J1 - PC/104 BUS		
PIN	J1/P1 A	J1/P1 B
1	NC	0V
2	SD7	RESETRV
3	SD6	+5V
4	SD5	IRQ9
5	SD4	-5V
6	SD3	DRQ2
7	SD2	-12V
8	SD1	ENDXFR
9	SD0	+12V
10	IOCHRDY	(KEY)
11	AEN	SMEMW
12	SA19	SMEMR
13	SA18	IOW
14	SA17	IOR
15	SA16	DACK3
16	SA15	DRQ3
17	SA14	DACK1
18	SA13	DRQ1
19	SA12	REFRESH
20	SA11	SYSCLK
21	SA10	IRQ7
22	SA9	IRQ6
23	SA8	IRQ5
24	SA7	IRQ4
25	SA6	IRQ3
26	SA5	DACK2
27	SA4	TC
28	SA3	BALE
29	SA2	+5V
30	SA1	OSC
31	SA0	0V
32	0V	0V

J3 - EXTERNAL KEYBOARD	
PIN	FUNCTION
1	CLK
2	DATA
3	NC
4	GND
5	Vcc

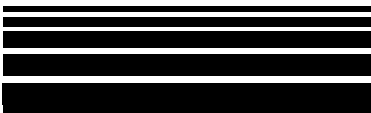
J4 - EXTERNAL UTILITY	
PIN	FUNCTION
1	KBLOCK INPUT
2	PWRGD INPUT
3	RESET INPUT
4	EXTERNAL BAT INPUT
5	GND

J5 - MATRIX KEYBOARD OUT (SCAN OUT)	
PIN	FUNKTION
1	SCAN OUT Y1
2	SCAN OUT Y2
3	SCAN OUT Y3
4	SCAN OUT Y4
5	SCAN OUT Y5
6	SCAN OUT Y6
7	SCAN OUT Y7
8	SCAN OUT Y8

J6 - MATRIX KEYBOARD IN (SCAN IN)	
PIN	FUNKTION
1	SCAN IN X1
2	SCAN IN X2
3	SCAN IN X3
4	SCAN IN X4
5	SCAN IN X5
6	SCAN IN X6
7	SCAN IN X7
8	SCAN IN X8

J2 - PC/104 BUS, 16 BIT EXTENSION		
PIN	J2/P2 C	J2/P2 D
1	0V	0V
2	SBHE	MEMCS16
3	LA23	IOCS16
4	LA22	IRQ10
5	LA21	IRQ11
6	LA20	IRQ12
7	LA19	IRQ13
8	LA18	IRQ14
9	LA17	DACK0
10	MEMR	DRQ0
11	MEMW	DACK5
12	SD8	DRQ5
13	SD9	DACK6
14	SD10	DRQ6
15	SD11	DACK7
16	SD12	DRQ7
17	SD13	+5VBDC
18	SD14	MASTER
19	SD15	0V
20	0V	0V

J7 - UTILITY (CPU CONNECTOR)	
PIN	FUNCTION
1	SPEAKER+
2	SPEAKER-
3	RESET
4	KBLOCK
5	KBDATA
6	KBCLOCK
7	GND
8	VCC
9	VBAT
10	NC



J8 - LCD CONTROL, MONOCHROM	
PIN	FUNCTION
1	FLAT PANEL VIDEO CLOCK
2	GND
3	GND
4	LCD LINE CLOCK
5	LCD FRAME START
6	GND
7	STN UPPER DATA 0/R0
8	STN UPPER DATA 1/R1
9	STN UPPER DATA 2/R2
10	STN UPPER DATA 3/R3
11	GND
12	UPPER DATA 0/G0
13	UPPER DATA 1/G1
14	UPPER DATA 2/G2
15	UPPER DATA 3/G3
16	LOWER DATA 0/B0
17	LOWER DATA 1/B1
18	LOWER DATA 2/B2
19	LOWER DATA 3/B3
20	GND
21	GND
22	SWVDD (FLAT PANEL Vcc)
23	GND
24	SWVDD (FLAT PANEL Vcc)
25	DISPLAY ENABLE
26	GND
27	NC
28	GND
29	GND

J9 - POWER IN (EXTERNAL POWER SUPPLY)	
PIN	FUNCTION
1	GND
2	GND
3	-5V
4	+12V
5	-12V
6	Vcc
7	Vcc

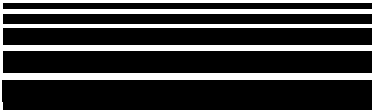
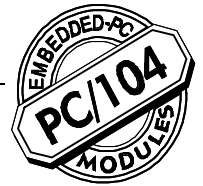
J10 - POWER	
PIN	FUNCTION
1	GND
2	Vcc

J11 - TFT CFL INVERTER CONTROL (EXTERNAL TRIM POT)	
PIN	FUNCTION
1	PIN 1
2	PIN 2
3	NC

J12 - TFT CFL UTILITY	
PIN	FUNCTION
1	CFL INVERTER CONTROL 1
2	CFL INVERTER CONTROL 2
3	SWITCHED POWER
4	SWITCHED POWER
5	GND
6	GND

J13 - CRT MONITOR	
PIN	FUNCTION
1	RED VIDEO
2	GND
3	GREEN VIDEO
4	GND
5	BLUE VIDEO
6	GND
7	HORIZONTAL SYNC
8	GND
9	VERTICAL SYNC
10	GND

J14 - LCD CONTROL, MONOCHROM	
PIN	FUNCTION
1	LCD FRAME START
2	LCD LINE CLOCK
3	FLAT PANEL VIDEO CLOCK
4	SWITCHED VEE
5	SWITCHED POWER
6	GND
7	VEE
8	UPPER DATA 0
9	UPPER DATA 1
10	UPPER DATA 2
11	UPPER DATA 3
12	GND
13	LOWER DATA 0
14	LOWER DATA 1
15	LOWER DATA 2
16	LOWER DATA 3

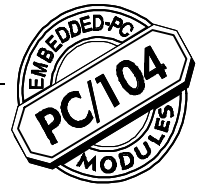


J15 - LCD CONTROL, TFT	
PIN	FUNCTION
1	GND
2	FLAT PANEL VIDEO CLOCK
3	LCD LINE CLOCK
4	LCD FRAME START
5	GND
6	RED0
7	RED1
8	RED2
9	RED3
10	RED4
11	RED5
12	GND
13	GREEN0
14	GREEN1
15	GREEN2
16	GREEN3
17	GREEN4
18	GREEN5
19	GND
20	BLUE0
21	BLUE1
22	BLUE2
23	BLUE3
24	BLUE4
25	BLUE5
26	GND
27	DISPLAY ENABLE
28	VCC
29	VCC
30	N/A
31	N/A
32	N/A
33	N/A
34	N/A

J16 - LCD CONTRAST (EXTERNAL TRIM POT)	
PIN	FUNCTION
1	FIX (SHORT WITH WIPER)
2	WIPER
3	FIX

J17 - RESET (EXTERNAL RESET SWITCH)	
PIN	FUNCTION
1	RESET
2	GND

J18 - LCD MONOCHROM UTILITY	
PIN	FUNCTION
1	GND
2	SWITCHED POWER
3	GND
4	CFL ENABLE
5	CFL ENABLE



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