CONN P8	SRM SIGNAL NAME	AM3359 PAD	LCD / HDMI	eMMC	BEBOPR USE	BEBOPR BLACK	BEBOPR-BRIDGE SIGNAL
1	GND	–			GND	GND	GND
2	GND	–			GND	GND	GND
3	GPIO1_6	R9		MMC1_DAT6	IO_PWR_ON	IO_PWR_ON	–
4	GPIO1_7	T9		MMC1_DAT7			–
5	GPIO1_2	R8		MMC1_DAT2	#IO_PWR_ON	#IO_PWR_ON	–
6	GPIO1_3	T8		MMC1_DAT3			–
7	TIMER4	R7				GPIO2[2]	#IO_PWR_ON
8	TIMER7	T7				GPIO2_3	X_MIN
9	TIMER5	T6				GPIO2_5	X_MAX
10	TIMER6	U6				GPIO2_4	Y_MIN
11	GPIO1_13	R12				GPIO1_13	X_DIR
12	GPIO1_12	T12				GPIO1_12	X_STP
13	EHRPWM2B	T10				EHRPWM2B	PWM0
14	GPIO0_26	T11				GPIO0_26	Y_MAX
15	GPIO1_15	U13				GPIO1_15	Y_DIR
16	GPIO1_14	V13				GPIO1_14	Y_STP
17	GPIO0_27	U12				GPIO0_27	Z_MIN
18	GPIO2_1	V12				GPIO2_1	Z_MAX
19	EHRPWM2A	U10				EHRPWM2A	PWM1
20	GPIO1_31	V9		MMC1_CMD	E_ENA	E_ENA	–
21	GPIO1_30	U9		MMC1_CLK	E_DIR	E_DIR	–
22	GPIO1_5	V8		MMC1_DAT5			–
23	GPIO1_4	U8		MMC1_DAT4			–
24	GPIO1_1	V7		MMC1_DAT1			–
25	GPIO1_0	U7		MMC1_DAT0	STATUS LED	STATUS LED	–
26	GPIO1_29	V6				GPIO1_29	STATUS LED
27	GPIO2_22	U5	LCD_VSYNC		Z_STP	Z_STP	–
28	GPIO2_24	V5	LCD_PCLK		Z_ENA	Z_ENA	–
29	GPIO2_23	R5	LCD_HSYNC		Z_DIR	Z_DIR	–
30	GPIO2_25	R6	LCD_AC_BIAS_EN		E_STP	E_STP	–
31	UART5_CTSN	V4	LCD_DATA14		X_MIN	X_MIN	–
32	UART5_RTSN	T5	LCD_DATA15		X_MAX	X_MAX	–
33	UART4_RTSN	V3	LCD_DATA13		Y_MAX	Y_MAX	–
34	UART3_RTSN	U4	LCD_DATA11				–
35	UART4_CTSN	V2	LCD_DATA12		Y_MIN	Y_MIN	–
36	UART3_CTSN	U3	LCD_DATA10		PWM2	PWM2	–
37	UART5_TXD	U1	LCD_DATA8		Z_MAX	Z_MAX	–
38	UART5_RXD	U2	LCD_DATA9		Z_MIN	Z_MIN	–
39	GPIO2_12	T3	LCD_DATA6		Y_DIR	Y_DIR	–
40	GPIO2_13	T4	LCD_DATA7		Y_ENA	Y_ENA	–
41	GPIO2_10	T1	LCD_DATA4		X_ENA	X_ENA	–
42	GPIO2_11	T2	LCD_DATA5		Y_STP	Y_STP	–
43	GPIO2_8	R3	LCD_DATA2		X_STP	X_STP	–
44	GPIO2_9	R4	LCD_DATA3		X_DIR	X_DIR	–
45	GPIO2_6	R1	LCD_DATA0		PWM1	PWM1	–
46	GPIO2_7	R2	LCD_DATA1		PWM0	PWM0	–

CONN P8	SRM SIGNAL NAME	AM3359 PAD	LCD / HDMI	eMMC	BEBOPR USE	BEBOPR BLACK	BEBOPR-BRIDGE SIGNAL
1	GND	–			–	–	GND
2	GND	–			–	–	GND
3	DC_3,3V	–			–	–	VDD_3V3EXP
4	DC_3,3V	–			–	–	VDD_3V3EXP
5	VDD_5V	–			–	–	VDD_5V
6	VDD_5V	–			–	–	VDD_5V
7	SYS_5V	–			–	–	SYS_5V
8	SYS_5V	–			–	–	SYS_5V
9	PWR_BUT	–			(PWR BUTTON)	(PWR BUTTON)	PWR_BUT
10	SYS_RESETn	A10			(RST BUTTON)	(RST BUTTON)	IO_PWR_ON
11	UART4_RXD	T17					–
12	GPIO1_28	U18					–
13	UART4_TXD	U17					–
14	EHRPWM1A	U14				EHRPWM1A	PWM2
15	GPIO1_16	R13				GPIO1_16	Z_STP
16	EHRPWM1B	T14					–
17	I2C1_SCL	A16				GPIO0_5	B_DIR
18	I2C1_SDA	B16				GPIO0_4	B_STP
19	I2C2_SCL	D17			I2C_SCL	I2C_SCL	I2C2_SCL
20	I2C2_SDA	D18			I2C_SDA	I2C_SDA	I2C2_SDA
21	UART2_TXD	B17				GPIO0_3	A_DIR
22	UART2_RXD	A17				GPIO0_2	A_STP
23	GPIO1_17	V14				GPIO1_17	Z_DIR
24	UART1_TXD	D15				GPIO0_15	SPINDLE
25	GPIO3_21	A14	AUDIO				–
26	UART1_RXD	D16				GPIO0_14	AXES_ENA
27	GPIO3_19	C13					–
28	SPI1_CS0	C12	AUDIO				–
29	SPI1_D0	B13	AUDIO				–
30	SPI1_D1	D12					–
31	SPI1_SCLK	A13	AUDIO				–
32	VADC	D8			VDD_ADC	VDD_ADC	VDD_ADC
33	AIN4	C8					THRM0
34	AGND	E8			GNDA_ADC	GNDA_ADC	GNDA_ADC
35	AIN6	A8					THRM2
36	AIN5	B8			THRM2	THRM2	THRM1
37	AIN2	B7	TOUCH				–
38	AIN3	A7	TOUCH		THRM1	THRM1	–
39	AIN0	B6	TOUCH				–
40	AIN1	C7	TOUCH		THRM0	THRM0	–
41	CLKOUT2	D14					–
42	GPIO0_7	C18					–
43	GND	–			GND	GND	GND
44	GND	–			GND	GND	GND
45	GND	–			GND	GND	GND
46	GND	–			GND	GND	GND