BBG HDR PIN	T2 NAME	LINUX PIN	ADDRESS 44e10000+	SCHEMATIC LABEL	PRU PIN NAME	GPIO BANK	PIN IN BANK	GPIO #	MODE	DIR	PULL DIS	PULL UP	#	CON-FIG	NOTES	BBG HDR PIN
EAST TERMINAL																*EAST TERMINAL*
P9_28	ET_TXRDY	103	0x99C/19C	SPI1_CS0	pr1_pru0_pru_r30_3	3	17	113	5	out	1	0	13	0x0d	kills spi1	P9_28
P9_42B	ET_TXDAT	104	0x9A0/1A0	GPIO3_18	pr1_pru0_pru_r30_4	3	18	114	5	out	1	0	13	0x0d	gpio0[7] must be input	P9_42B
P9_31	ET_RXRDY	100	0x990/190	SPI1_SCLK	pr1_pru0_pru_r31_0	3	14	110	6	in	1	0	46	0x2e	kills spi1	P9_31
P9_29	ET_RXDAT	101	0x994/194	SP1_D0	pr1_pru0_pru_r31_1	3	15	111	6	in	1	0	46	0x2e	kills spi1	P9_29
P8_07	ET_ORQLK	36	0x890/090	TIMER4		2	2	66	7	out	1	0	15	0x0f		P8_07
P8_08	ET_OGRLK	37	0x894/094	TIMER7		2	3	67	7	out	1	0	15	0x0f		P8_08
P8_09	ET_IRQLK	39	0x89C/09C	TIMER5		2	5	69	7	in	0	0	39	0x27		P8_09
P8_10	ET_IGRLK	38	0x898/098	TIMER6		2	4	68	7	in	0	0	39	0x27		P8_10
SOUTHEAST TERMINAL																*SOUTHEAST TERMINAL*
P9_27	SE_TXRDY	105	0x9A4/1A4	GPIO3_19	pr1_pru0_pru_r30_5	3	19	115	5	out	1	0	13	0x0d		P9_27
P9_41B	SE_TXDAT	106	0x9A8/1A8	GPIO3_20	pr1_pru0_pru_r30_6	3	20	116	5	out	1	0	13	0x0d	gpio0[20] must be input	P9_41B
P9_30	SE_RXRDY	102	0x998/198	SP1_D1	pr1_pru0_pru_r31_2	3	16	112	6	in	1	0	46	0x2e	kills spi1	P9_30
P8_16	SE_RXDAT	14	0x838/038	GPIO1_14	pr1_pru0_pru_r31_14	1	14	46	6	in	1	0	46	0x2e		P8_16
P8_11	SE_ORQLK	13	0x834/034	GPIO1_13		1	13	45	7	out	1	0	15	0x0f	Mode6: pr1_pru0_pru_r30_15	P8_11
P8_13	SE_OGRLK	9	0x824/024	EHRPWM2B		0	23	23	7	out	1	0	15	0x0f		P8_13
P8_14	SE_IRQLK	10	0x828/028	GPIO0_26		0	26	26	7	in	0	0	39	0x27		P8_14
P8_17	SE_IGRLK	11	0x82C/02C	GPIO0_27		0	27	27	7	in	0	0	39	0x27		P8_17
SOUTHWEST TERMINAL																*SOUTHWEST TERMINAL*
P9_25	SW_TXRDY	107	0x9AC/1AC	GPIO3_21	pr1_pru0_pru_r30_7	3	21	117	5	out	1	0	13	0x0d		P9_25
P8_12	SW_TXDAT	12	0x830/030	GPIO1_12	pr1_pru0_pru_r30_14	1	12	44	6	out	1	0	14	0x0e		P8_12
P8_15	SW_RXRDY	15	0x83C/03C	GPIO1_15	pr1_pru0_pru_r31_15	1	15	47	6	in	1	0	46	0x2e		P8_15
P9_24	SW_RXDAT	97	0x984/184	UART1_TXD	pr1_pru0_pru_r31_16	0	15	15	6	in	0	0	38	0x26	Or P9_41A?	P9_24
P8_18	SW_ORQLK	35	0x88C/08C	GPIO2_10		2	1	65	7	out	1	0	15	0x0f		P8_18
P8_19	SW_OGRLK	8	0x820/020	EHRPWM2A		0	22	22	7	out	1	0	15	0x0f		P8_19
P8_26	SW_IRQLK	31	0x87C/07C	GPIO1_29		1	29	61	7	in	0	0	39	0x27	pru1_r31/r30_13	P8_26
P8_31	SW_IGRLK	54	0x8D8/0D8	UART5_CTSN		0	10	10	7	in	0	0	39	0x27	pru1_r31/r30_12,SYS_BOOT14,1	P8_31
WEST TERMINAL																*WEST TERMINAL*
P8_45	WT_TXRDY	40	0x8A0/0A0	GPIO2_6	pr1_pru1_pru_r30_0	2	6	70	5	out	1	0	13	0x0d	SYS_BOOT0 0	P8_45
P8_46	WT_TXDAT	41	0x8A4/0A4	GPIO2_7	pr1_pru1_pru_r30_1	2	7	71	5	out	1	0	13	0x0d	SYS_BOOT1 0	P8_46
P8_39	WT_RXRDY	46	0x8B8/0B8	GPIO2_12	pr1_pru1_pru_r31_6	2	12	76	6	in	1	0	46	0x2e	SYS_BOOT6 D/C	P8_39
P8_40	WT_RXDAT	47	0x8BC/0BC	GPIO2_13	pr1_pru1_pru_r31_7	2	13	77	6	in	1	0	46	0x2e	SYS_BOOT7 D/C	P8_40
P8_32	WT_ORQLK	55	0x8DC/0DC	UART5_RTSN		0	11	11	7	out	1	0	15	0x0f	SYS_BOOT15 0	P8_32
P8_33	WT_OGRLK	53	0x8D4/0D4	UART4_RTSN		0	9	9	7	out	1	0	15	0x0f	SYS_BOOT13 0	P8_33
P8_34	WT_IRQLK	51	0x8CC/0CC	UART3_RTSN		2	17	81	7	in	0	0	39	0x27	SYS_BOOT11 D/C	P8_34
P8_35	WT_IGRLK	52	0x8D0/0D0	UART4_CTSN		0	8	8	7	in	0	0	39	0x27	SYS_BOOT12 0	P8_35

BBG HDR PIN	T2 NAME	LINUX PIN	ADDRESS 44e10000+	SCHEMATIC LABEL	PRU PIN NAME	GPIO BANK	PIN IN BANK	GPIO #	MODE	DIR	PULL DIS	PULL UP	#	CON-FIG	NOTES	BBG HDR PIN
NORTHWEST TERMINAL															*NORTHWEST TERMINAL*	
P8_27	NW_TXRDY	56	0x8E0/0E0	GPIO2_22	pr1_pru1_pru_r30_8	2	22	86	5	out	1	0	13	0x0d	swapped NW_RXRDY in 218	P8_27
P8_29	NW_TXDAT	57	0x8E4/0E4	GPIO2_23	pr1_pru1_pru_r30_9	2	23	87	5	out	1	0	13	0x0d	swapped NW_RXDAT in 218	P8_29
P8_43	NW_RXRDY	42	0x8A8/0A8	GPIO2_8	pr1_pru1_pru_r31_2	2	8	72	6	in	1	0	46	0x2e	SYS_BOOT2 1 (0 skips eMMC)	P8_43
P8_44	NW_RXDAT	43	0x8AC/0AC	GPIO2_9	pr1_pru1_pru_r31_3	2	9	73	6	in	1	0	46	0x2e	SYS_BOOT3 1	P8_44
P8_36	NW_ORQLK	50	0x8C8/0C8	UART3_CTSN		2	16	80	7	out	1	0	15	0x0f	SYS_BOOT10 D/C	P8_36
P8_37	NW_OGRLK	48	0x8C0/0C0	UART5_TXD		2	14	78	7	out	1	0	15	0x0f	SYS_BOOT8 D/C	P8_37
P8_38	NW_IRQLK	49	0x8C4/0C4	UART5_RXD		2	15	79	7	in	0	0	39	0x27	SYS_BOOT9 D/C	P8_38
P9_12	NW_IGRLK	30	0x878/078	GPIO1_28		1	28	60	7	in	0	0	39	0x27		P9_12
NORTHEAST TERMINAL															*NORTHEAST TERMINAL*	
P8_28	NE_TXRDY	58	0x8E8/0E8	GPIO2_24	pr1_pru1_pru_r30_10	2	24	88	5	out	1	0	13	0x0d	swapped NE_RXRDY in 218	P8_28
P8_30	NE_TXDAT	59	0x8EC/0EC	GPIO2_25	pr1_pru1_pru_r30_11	2	25	89	5	out	1	0	13	0x0d	swapped NE_RXDAT in 218	P8_30
P8_41	NE_RXRDY	44	0x8B0/0B0	GPIO2_10	pr1_pru1_pru_r31_4	2	10	74	6	in	1	0	46	0x2e	SYS_BOOT4 1	P8_41
P8_42	NE_RXDAT	45	0x8B4/0B4	GPIO2_11	pr1_pru1_pru_r31_5	2	11	75	6	in	1	0	46	0x2e	SYS_BOOT5 0 (no CLKOUT)	P8_42
P9_14	NE_ORQLK	18	0x848/048	EHRPWM1A		1	18	50	7	out	1	0	15	0x0f		P9_14
P9_16	NE_OGRLK	19	0x84C/04C	EHRPWM1B		1	19	51	7	out	1	0	15	0x0f		P9_16
P9_23	NE_IRQLK	17	0x844/044	GPIO1_17		1	17	49	7	in	0	0	39	0x27		P9_23
P9_26	NE_IGRLK	96	0x980/180	UART1_RXD		0	14	14	7	in	0	0	39	0x27		P9_26
SPI DISPLAY + TOUCH															*SPI DISPLAY + TOUCH*	
P9_11	DSP_PWRON	28	0x870/070	UART4_RXD		0	30	30	7	out	0	0	7	0x07	LCD power, use as reset	P9_11
P9_15	DSP_DC	16	0x840/040	GPIO1_16		1	16	48	7	out	0	1	23	0x17	display data/cmd flag	P9_15
P9_19	TP_IRQ	95	0x97C/17C	I2C2_SCL		0	13	13	7	in	0	1	55	0x37	active low touch irq	P9_19
P9_20	TP_CS	94	0x978/178	I2C2_SDA		0	12	12	7	out	0	1	23	0x17	active low tp chip select	P9_20
P9_17	SPI0_CS0	87	0x95C/15C	I2C1_SCL		0	5	5	0	out	0	1	16	0x10	active low lcd chip select	P9_17
P9_18	SPI0_D1	86	0x958/158	I2C1_SDA		0	4	4	0	in	0	1	48	0x30	TP_MISO if TP_IRQ	P9_18
P9_21	SPI0_D0	85	0x954/154	UART2_TXD		0	3	3	0	out	0	1	16	0x10	output to LCD	P9_21
P9_22	SPI0_SCLK	84	0x950/150	UART2_RXD		0	2	2	0	in	0	1	48	0x30	LCD / TP clock (Yes: An input)	P9_22
ANALOG + MISC PINS															*ANALOG + MISC PINS*	
P9_13	EXT_PWR_EN	29	0x874/074	UART4_TXD		0	31	31	7	out	0	0	7	0x07	external power enable	P9_13
P9_39	GRDVLT_A														AIN0 – Grid voltage	P9_39
P9_40	CTRTMP_A														AIN1 – Tile center temp	P9_40
P9_37	EDGTMP_A														AIN2 – Tile edge temp	P9_37
P9_36	USER_ACT_A														AIN5 – SW2 grounds this	P9_36
P9_35	LIGHT_A														AIN6 — Ambient light sensor	P9_35
CONFLICT PINS															*CONFLICT PINS*	
P9_41A	RSRVINP1	109	0x9B4/1B4	CLKOUT2		0	20	20	7	in	1	0	47	0x2f	avoid P9_41B conflict	P9_41A
P9_42A	RSRVINP2	89	0x964/164	GPIO0_7		0	7	7	7	in	1	0	47	0x2f	avoid P9_42B conflict	P9_42A