

Birdland BAV335x-B Network Processor: Pin Planner and GPIO register addresses

ZCZ	44e10000	Offset	Mode7	GPIO#	Birdland Recommended Use	BAV335x Pin	OEM Board Pin Usage	Mode0	Mode6	Mode5	Mode4	Mode3	Mode2	Mode1
M17	0x948	0x148	GPIO 0-0		Internal (Ethernet)	-	- N/A -	mdio_data	mmc2_cmd	mmc1_cmd	mmc0_sdc	uart3_cts	uart5_rxd	timer6
M18	0x94c	0x14c	GPIO 0-1		Internal (Ethernet)	-	- N/A -	mdio_clk	mmc2_clk	mmc1_clk	mmc0_sdw	uart3_rts	uart5_txd	timer5
A17	0x950	0x150	GPIO 0-2	2	SPIO / GPIO	88		spl0_sclk	emu2	pr1_edio_sof	pr1_uart0_cts	pwm0A	i2c2_sda	uart2_rxd
B17	0x954	0x154	GPIO 0-3	3	SPIO / GPIO	87		spl0_d0	emu3	pr1_edio_latchn	pr1_uart0_rts	pwm0B	i2c2_scl	uart2_txd
B16	0x958	0x158	GPIO 0-4	4	SPIO / GPIO	109		spl0_d1	pr1_edio_dout0	pr1_edio_din0	pr1_uart0_rxd	pwm0_tripzin	i2c1_sda	mmc1_sdw
A16	0x95c	0x15c	GPIO 0-5	5	SPIO / GPIO	110		spl0_cs0	pr1_edio_din1	pr1_edio_din1	pr1_uart0_txd	pwm0_synci	i2c1_scl	mmc2_sdw
C15	0x960	0x160	GPIO 0-6		Internal (microSD)	-	- N/A -	spl0_cs1	emu4	mmc0_sdc	xdma_ev_int2	mmc0_pow	ecap1in_pwm1out	uart3_rxd
C18	0x964	0x164	GPIO 0-7	7	GPIO	115		cap0in_pwmOut	xdma_ev_int2	mmc0_sdw	spl1_sclk	cap0i_apwmo	spl1_cs1	uart3_txd
V2	0x8d0	0x0d0	GPIO 0-8	8	Parallel LCD (16 bits)	29		lcd_d12	uart4_cts	pr1_mii0_rlink	asp0_axr2	asp0_aclrx	eqep1A_in	gpmc_a16
V3	0x8d4	0x0d4	GPIO 0-9	9	Parallel LCD (16 bits)	30		lcd_d13	uart4_rts	pr1_mii0_rxr	asp0_axr3	asp0_fsr	eqep1B_in	gpmc_a17
V4	0x8d8	0x0d8	GPIO 0-10	10	Parallel LCD (16 bits)	31		lcd_d14	uart5_cts	pr1_mii0_clk	uart5_rxd	asp0_axr1	eqep1_index	gpmc_a18
T5	0x8dc	0x0dc	GPIO 0-11	11	Parallel LCD (16 bits)	32		lcd_d15	uart5_rts	pr1_mii0_rxdv	asp0_axr3	asp0_ahclrx	eqep1_strobe	gpmc_a19
D18	0x978	0x178	GPIO 0-12	12	I2C2 SDA	107		uart1_cts	pr1_edc_latch0in	pr1_uart0_cts	spl1_cs0	pr1_edio_din7	can0_tx	timer6
D17	0x97c	0x17c	GPIO 0-13	13	I2C2 SCL	108		uart1_rts	pr1_edc_latch1in	pr1_uart0_rts	spl1_cs1	i2c2_scl	can0_rx	timer5
D16	0x980	0x180	GPIO 0-14	14	Secondary UART	89		uart1_rxd	pr1_pr_u0_pr_u31_16	pr1_uart0_rxd	pr1_uart0_rxd	i2c1_sda	can1_tx	mmc1_sdw
D15	0x984	0x184	GPIO 0-15	15	Secondary UART	90		uart1_txd	pr1_pr_u0_pr_u31_16	uart0_txd	-	i2c1_scl	can1_rx	mmc2_sdw
J18	0x91c	0x11c	GPIO 0-16		Internal (Ethernet)	-	- N/A -	gmii1_txd3	asp0_fsr	mmc1_d1	asp1_fsx	uart4_rxd	rgmii1_td3	can0_tx
K15	0x920	0x120	GPIO 0-17		Internal (Ethernet)	-	- N/A -	gmii1_txd2	asp0_ahclrx	mmc2_d2	asp1_axr0	uart4_txd	rgmii1_td2	can0_rx
F16	0x91c	0x21c	GPIO 0-18		Internal (USB0)	-	- N/A -	USB0_drvbus	-	-	-	-	-	-
A15	0x9b0	0x1b0	GPIO 0-19		GPIO	105		xdma_ev_int0	emu2	pr1_pr_u0_pr_u31_16	spl1_cs1	clkout1	timer4	-
D14	0x9b4	0x1b4	GPIO 0-20	20	GPIO (or 12/24MHz clock)	106		xdma_ev_int1	emu3	pr1_pr_u0_pr_u31_16	timer7	clkout2	timer4	-
K16	0x924	0x124	GPIO 0-21		Internal (Ethernet)	-	- N/A -	gmii1_txd1	mmc1_cmd	-	asp1_axr1	asp1_fsr	rgmii1_td1	rmii1_txd1
U10	0x820	0x020	GPIO 0-22	22	Parallel LCD (24 bits)	48		gpmc_ad8	-	pr1_mii0_clk	pwm2A	mmc2_da4	mmc1_da0	lcd_da23
T10	0x824	0x024	GPIO 0-23	23	Parallel LCD (24 bits)	47		gpmc_ad9	-	pr1_mii0_col	pwm2B	mmc2_da5	mmc1_da1	lcd_da22
T11	0x828	0x028	GPIO 0-26	26	Parallel LCD (24 bits)	46		gpmc_ad10	-	pr1_mii0_txen	pwm2_tripzin	mmc2_da6	mmc1_da2	lcd_da21
U12	0x82c	0x02c	GPIO 0-27	27	Parallel LCD (24 bits)	45		gpmc_ad11	-	pr1_mii0_txd3	pwm0_synco	mmc2_da7	mmc1_da3	lcd_da20
K17	0x928	0x128	GPIO 0-28		Internal (Ethernet)	-	- N/A -	gmii1_txd0	mmc1_clk	eqep0B_in	asp1_aclrx	asp1_axr2	rgmii1_td0	rmii1_txd0
H18	0x944	0x144	GPIO 0-29		Internal (Ethernet)	-	- N/A -	rmii1_refclk	asp1_ahclrx	mmc0_pow	asp1_axr3	uart5_txd	spl1_cs0	xdma_ev_int2
T17	0x870	0x070	GPIO 0-30	30	GPIO	70		gpmc_wait0	uart4_rxd	pr1_mii1_col	mmc1_sdc	rmii2_crs_dv	gpmc_csn4	gmii2_crs
U17	0x874	0x074	GPIO 0-31	31	GPIO	69		gpmc_wpn	uart4_txd	pr1_mii1_txen	mmc2_sdc	rmii2_rxerr	gpmc_csn5	gmii2_rxerr
U7	0x800	0x000	GPIO 1-0	32	Internal (eMMC)	-	- N/A -	gpmc_ad0	-	-	-	-	-	mmc1_da0
V7	0x804	0x004	GPIO 1-1	33	Internal (eMMC)	-	- N/A -	gpmc_ad1	-	-	-	-	-	mmc1_da1
R8	0x808	0x008	GPIO 1-2	34	Internal (eMMC)	-	- N/A -	gpmc_ad2	-	-	-	-	-	mmc1_da2
T8	0x80c	0x00c	GPIO 1-3	35	Internal (eMMC)	-	- N/A -	gpmc_ad3	-	-	-	-	-	mmc1_da3
U8	0x810	0x010	GPIO 1-4	36	Internal (eMMC)	-	- N/A -	gpmc_ad4	-	-	-	-	-	mmc1_da4
V8	0x814	0x014	GPIO 1-5	37	Internal (eMMC)	-	- N/A -	gpmc_ad5	-	-	-	-	-	mmc1_da5
R9	0x818	0x018	GPIO 1-6	38	Internal (eMMC)	-	- N/A -	gpmc_ad6	-	-	-	-	-	mmc1_da6
T9	0x81c	0x01c	GPIO 1-7	39	Internal (eMMC)	-	- N/A -	gpmc_ad7	-	-	-	-	-	mmc1_da7
E18	0x968	0x168	GPIO 1-8		GPIO	85		uart0_cts	pr1_edc_sync0_out	timer7	spl1_d0	i2c1_sda	can1_tx	uart4_rxd
E17	0x96c	0x16c	GPIO 1-9		GPIO	86		uart0_rts	pr1_edc_sync1out	spl1_cs0	spl1_d1	i2c1_scl	can1_rx	uart4_txd
E15	0x970	0x170	GPIO 1-10		Serial Console RxD	92	Serial Console RxD	uart0_rxd	pr1_pr_u0_pr_u31_14	pr1_pr_u0_pr_u31_14	ecap2in_pwm2out	i2c2_sda	can0_tx	spl1_cs0
E16	0x974	0x174	GPIO 1-11		Serial Console TxD	91	Serial Console TxD	uart0_txd	pr1_pr_u0_pr_u31_15	pr1_pr_u0_pr_u31_15	ecap1in_pwm1out	i2c2_scl	can0_rx	spl1_cs1
R12	0x830	0x030	GPIO 1-12	44	Parallel LCD (24 bits)	44		gpmc_ad12	pr1_pr_u0_r30_14	pr1_mii0_txd2	eqep2A-in	mmc2_d0	mmc1_d4	lcd_d19
R12	0x834	0x034	GPIO 1-13	45	Parallel LCD (24 bits)	43		gpmc_ad13	pr1_pr_u0_r30_15	pr1_mii0_txd1	eqep2B-in	mmc2_d1	mmc1_d5	lcd_d18
V13	0x838	0x038	GPIO 1-14	46	Parallel LCD (24 bits)	42		gpmc_ad14	pr1_pr_u0_r31_14	pr1_mii0_txd0	eqep2_index	mmc2_d2	mmc1_d6	lcd_d17
U13	0x83c	0x03c	GPIO 1-15	47	Parallel LCD (24 bits)	41		gpmc_ad15	pr1_pr_u0_r31_15	pr1_cap0in_pwm0	eqep2_strobe	mmc2_d3	mmc1_d7	lcd_d16
R13	0x840	0x040	GPIO 1-16	48	GPIO	63		gpmc_a0	pwm1_tripzin	pr1_mii0_mtclk	gpmc_a16	rmii2_txen	rgmii2_tctl	gmii2_txen
V14	0x844	0x044	GPIO 1-17	49	GPIO	67		gpmc_a1	pwm0_synco	pr1_mii1_txd3	gpmc_a17	mmc2_d0	rgmii2_rctl	gmii2_rxdv
U14	0x848	0x048	GPIO 1-18	50	(LCD Backlight PWM)	65		gpmc_a2	pwm1A	pr1_mii1_txd2	gpmc_a18	mmc2_d1	rgmii2_td3	gmii2_txd3
T14	0x84c	0x04c	GPIO 1-19	51	GPIO	66		gpmc_a3	pwm1B	pr1_mii1_txd1	gpmc_a19	mmc2_d2	rgmii2_td2	gmii2_txd2
R14	0x850	0x050	GPIO 1-20		Internal (eMMC)	-	- N/A -	gpmc_a4	eqep1A_in	pr1_mii1_txd0	gpmc_a20	rmii2_txd1?	rgmii2_td1	gmii2_txd1
U15	0x854	0x054	GPIO 1-21	53	User LED: Heartbeat	57	(User LED)	gpmc_a5	eqep2B_in	pr1_mii1_rxd3	gpmc_a21	rmii2_txd0	rgmii2_td0	gmii2_txd0
V15	0x858	0x058	GPIO 1-22		User LED: CPU Utilization	58	(User LED)	gpmc_a6	eqep1_index	pr1_mii1_rxd2	gpmc_a22	mmc2_d4	rgmii2_tctl	gmii2_txd1
T15	0x85c	0x05c	GPIO 1-23		User LED: eMMC access	59	(User LED)	gpmc_a7	eqep1_strobe	pr1_mii1_rxd1	gpmc_a23	mmc2_d5	rgmii2_rclk	gmii2_rxd1
V16	0x860	0x060	GPIO 1-24		User LED: microSD access	60	(User LED)	gpmc_a8	asp0_aclrx	pr1_mii1_rxd0	gpmc_a23	mmc2_d6	rgmii2_rd3	gmii2_rxd3
U16	0x864	0x064	GPIO 1-25		GPIO	68		gpmc_a9	asp0_fsr	pr1_mii1_mtclk	gpmc_a25	mmc2_d7/rmii2_crsdv	rgmii2_rd2	gmii2_rxd2
T16	0x868	0x068	GPIO 1-26		Internal (USB)	-	- N/A -	gpmc_a10	asp0_axr0	pr1_mii1_rxdv	gpmc_a26	rmii2_rxd1	rgmii2_rd1	gmii2_rxd1
V17	0x86c	0x06c	GPIO 1-27	59	GPIO	71		gpmc_a11	asp0_axr1	pr1_mii1_rxr	gpmc_a27	rmii2_rxd0	rgmii2_rd0	gmii2_rxd0
U18	0x878	0x078	GPIO 1-28	60	GPIO	72		gpmc_be1n	asp0_aclrx	pr1_mii1_rlink	gpmc_dir	mmc2_da3	gpmc_csn6	gmii2_col
V6	0x87c	0x07c	GPIO 1-29	61	GPIO	55		gpmc_csn0	-	-	-	-	-	-
U9	0x880	0x080	GPIO 1-30	62	Internal (eMMC)	-	- N/A -	gpmc_csn1	pr1_pr_u0_pr_u31_12	pr1_pr_u0_pr_u30_12	pr1_edio_dout6	pr1_edio_din6	mmc1_clk	gpmc_clk
V9	0x884	0x084	GPIO 1-31	63	Internal (eMMC)	-	- N/A -	gpmc_csn2	pr1_pr_u0_pr_u31_13	pr1_pr_u0_pr_u30_13	pr1_edio_dout7	pr1_edio_din7	mmc1_cmd	gpmc_be1n
T13	0x888	0x088	GPIO 2-0		GPIO	64		gpmc_csn3	emu4	pr1_mdio_data	pr1_mii0_crs	mmc2_cmd	rmii2_crsdv	gpmc_a3
V12	0x88c	0x08c	GPIO 2-1	65	GPIO	56		gpmc_clk	asp0_fsr	pr1_mdio_mdclk	pr1_mii1_crs	mmc2_clk	gpmc_wait1	lcd_memclk
R7	0x890	0x090	GPIO 2-2	66	GPIO	53		gpmc_advn_ale	-	-	-	-	-	timer4
T7	0x894	0x094	GPIO 2-3	67	GPIO	54		gpmc_oen_ren	-	-	-	-	-	timer7
U6	0x898	0x098	GPIO 2-4	68	GPIO	51		gpmc_wen	-	-	-	-	-	timer6
T6	0x89c	0x09c	GPIO 2-5	69	GPIO	52		gpmc_be0_cle	-	-	-	-	-	timer5
R1	0x8a0	0x0a0	GPIO 2-6	70	Parallel LCD (16 bits)	15		lcd_d0	pr1_pr_u0_pr_u31_0	pr1_pr_u0_pr_u30_0	-	pwm2A	pr1_mii0_clk	gpmc_a0
R2	0x8a4	0x0a4	GPIO 2-7	71	Parallel LCD (16 bits)	16		lcd_d1	pr1_pr_u0_pr_u31_1	pr1_pr_u0_pr_u30_1	-	pwm2B	pr1_mii0_txen	gpmc_a1
R3	0x8a8	0x0a8	GPIO 2-8	72	Parallel LCD (16 bits)	17		lcd_d2	pr1_pr_u0_pr_u31_2	pr1_pr_u0_pr_u30_2	-	pwm2_tripzin	pr1_mii0_txd3	gpmc_a2
R4	0x8ac	0x0ac	GPIO 2-9	73	Parallel LCD (16 bits)	18		lcd_d3	pr1_pr_u0_pr_u31_3	pr1_pr_u0_pr_u30_3	-	pwm0_synco	pr1_mii0_txd2	gpmc_a3
T1	0x8b0	0x0b0	GPIO 2-10	74	Parallel LCD (16 bits)	19		lcd_d4	pr1_pr_u0_pr_u31_4	pr1_pr_u0_pr_u30_4	-	eqep2A-in	pr1_mii0_txd1	gpmc_a4
T2	0x8b4	0x0b4	GPIO 2-11	75	Parallel LCD (16 bits)	20		lcd_d5	pr1_pr_u0_pr_u31_5	pr1_pr_u0_pr_u30_5	-	eqep2B-in	pr1_mii0_txd0	gpmc_a5
T3	0x8b8	0x0b8	GPIO 2-12	76	Parallel LCD (16 bits)	21		lcd_d6	pr1_pr_u0_pr_u31_6	pr1_pr_u0_pr_u30_6	pr1_edio_dout6	eqep2_index	pr1_edio_din6	gpmc_a6
T4	0x8bc	0x0bc	GPIO 2-13	77	Parallel LCD (16 bits)	22		lcd_d7	pr1_pr_u0_pr_u31_7	pr1_pr_u0_pr_u30_7	pr1_edio_dout7	eqep2_strobe	pr1_edio_din7	gpmc_a7
U1	0x8c0	0x0c0	GPIO 2-14	78	Parallel LCD (16 bits)	25		lcd_d8	uart2_cts	pr1_mii0_rxd3	uart5_txd	asp0_aclrx	pwm1_tripzin	gpmc_a12
U2	0x8c4	0x0c4	GPIO 2-15	79	Parallel LCD (16 bits)	26		lcd_d9	uart2_rts	pr1_mii0_rxd2	uart5_rxd	asp0_fsr	pwm0_synco	gpmc_a13
U3	0x8c8	0x0c8	GPIO 2-16	80	Parallel LCD (16 bits)	29		lcd_d10	uart3_cts	pr1_mii0_rxd1	-	asp0_axr0	pwm1A	gpmc_a14
U4	0x8cc	0x0cc	GPIO 2-17	81	Parallel LCD (16 bits)	28		lcd_d11	uart3_rts	pr1_mii0_rxd0	asp0_axr2	asp0_ahclrx	pwm1B	gpmc_a15
L17	0x934	0x134	GPIO 2-18		Internal (Ethernet)	-	- N/A -	gmii1_rxd3	asp0_axr0	uart1_dtr	mmc0_d5	rgmii1_rd3	uart3_rxd	-
L16	0x938	0x138	GPIO 2-19		Internal (Ethernet)	-	- N/A -	gmii1_rxd2	asp0_axr1	uart1_r	mmc1_d3	rgmii1_rd2	uart3_txd	-
L15	0x93c	0x13c	GPIO 2-20		Internal (Ethernet)	-	- N/A -	gmii1_rxd1	mmc2_clk	eqep0_strobe	asp1_fsr	rgmii1_rd1	rmii1_rxd1	-
M16	0x940	0x140	GPIO 2-21		Internal (Ethernet)	-	- N/A -	gmii1_rxd0	asp0_axr3	asp1_aclrx	asp1_ahclrx	rgmii1_rd0	rmii1_rxd0	-
U5	0x8e0	0x0e0	GPIO 2-22		Parallel LCD V-Sync	35		lcd_vsync	pr1_pr_u0_pr_u31_8	pr1_pr_u0_pr_u30_8	pr1_edio_dout2	pr1_edio_din2	gpmc_a1	gpmc_a8
R5	0x8e4	0x0e4	GPIO 2-23	87	Parallel LCD H-Sync	36		lcd_hsync	pr1_pr_u0_pr_u31_9	pr1_pr_u0_pr_u30_9	pr1_edio_dout3	pr1_edio_din3	gpmc_a2	gpmc_a9
V5	0x8e8	0x0e8	GPIO 2-24	88	Parallel LCD PxClk	37		lcd_pclk	pr1_pr_u0_pr_u31_10	pr1_pr_u0_pr_u30_10	pr1_edio_dout4	pr1_edio_din4	pr1_mii0_crs	gpmc_a10
R6	0x8ec	0x0ec	GPIO 2-25	89	Parallel LCD DE	38		lcd_bias_en	pr1_pr_u0_pr_u31_11	pr1_pr_u0_pr_u30_11	pr1_edio_dout5	pr1_edio_din5	pr1_mii1_crs	gpmc_a11
F17	0x8f0	0x0f0	GPIO 2-26		Internal (micro-SD)	-	- N/A -	mmc0_d3	pr1_pr_u0_pr_u31_8	pr1_pr_u0_pr_u30_8	uart1_d			