

Arduino Due				EEZ Arduino shield r5B12		
#	Pin name	Pin no.	IDE pin name	Pin name	Type	Description
1	PE0	2	0	–	–	–
2	PE1	3	1	–	–	–
3	PE4	6	2	TOUCH_IRQ	Digital in	3.2" LCD touch screen interrupt request
4	PE5	7	3	TOUCH_DOUT	Digital in	3.2" LCD touch screen data out
5	PG5	1	4	SYNC_MASTER	Digital out	Power board pre-regulator sync
6	PE3	5	5	WATCHDOG	PWM 8-bit	TPS3705-33 reset supervisor watchdog input (optional)
7	PH3	15	6	FAN_PWM	PWM 8-bit	FAN speed control
8	PH4	16	7	LCD_BRIGHTNESS	PWM 8-bit	3.2" LCD background control (0=max. brightness)
9	PH5	17	8	RTC_SELECT	Digital out	PCA21125 RTC chip select
10	PH6	18	9	BP_SELECT	Digital out	TLC5925 16-output driver select
11	PB4	23	10	BP_OE	Digital out	TLC5925 16-output driver output enable
12	PB5	24	11	ETH_SELECT	Digital out	W5500 Ethernet chip select
13	PB6	25	12	BUZZER	PWM 8-bit	Buzzer
14	PB7	26	13	FAN_SENSE	Digital in	Fan tachometric signal for 3-wire fan
15	PJ1	64	14	ISOLATOR1_EN	Digital out	Ch#1 Data out (MISO) enable
16	PJ0	63	15	ADC1_SELECT	Digital out	Ch#1 ADS1120 ADC chip select
17	PH1	13	16	DAC1_SELECT	Digital out	Ch#1 DAC8552 DAC chip select
18	PH0	12	17	IO_EXPANDER1	Digital out	Ch#1 MCP23S08 8-bit expander chip select
19	PD3	46	18	ETH_IRQ	Digital in	W5500 Ethernet interrupt request
20	PD2	45	19	RTC_IRQ	Digital in	PCA21125 RTC interrupt request
21	PD1	44	20	CONVEND2	Digital in	Ch#2 DRDY/Interrupt
22	PD0	43	21	CONVEND1	Digital in	Ch#1 DRDY/Interrupt
23	PA0	78	22	LCD_DB8	Digital out	3.2" LCD Data I/O 8
24	PA1	77	23	LCD_DB9	Digital out	3.2" LCD Data I/O 9
25	PA2	76	24	LCD_DB10	Digital out	3.2" LCD Data I/O 10
26	PA3	75	25	LCD_DB11	Digital out	3.2" LCD Data I/O 11
27	PA4	74	26	LCD_DB12	Digital out	3.2" LCD Data I/O 12
28	PA5	73	27	LCD_DB13	Digital out	3.2" LCD Data I/O 13
29	PA6	72	28	LCD_DB14	Digital out	3.2" LCD Data I/O 14
30	PA7	71	29	LCD_DB15	Digital out	3.2" LCD Data I/O 15
31	PC7	60	30	LCD_DB7	Digital out	3.2" LCD Data I/O 7
32	PC6	59	31	LCD_DB6	Digital out	3.2" LCD Data I/O 6
33	PC5	58	32	LCD_DB5	Digital out	3.2" LCD Data I/O 5
34	PC4	57	33	LCD_DB4	Digital out	3.2" LCD Data I/O 4
35	PC3	56	34	LCD_DB3	Digital out	3.2" LCD Data I/O 3
36	PC2	55	35	LCD_DB2	Digital out	3.2" LCD Data I/O 2

37	PC1	54	36	LCD_DB1	Digital out	3.2" LCD Data I/O 1
38	PC0	53	37	LCD_DB0	Digital out	3.2" LCD Data I/O 0
39	PD7	50	38	LCD_RESET	Digital out	3.2" LCD register select
40	PG2	70	39	LCD_CS	Digital out	3.2" LCD write / Riverdi 3.5" LCD chip select
41	PG1	52	40	LCD_WR	Digital out	3.2" LCD select
42	PG0	51	41	LCD_RS	Digital out	3.2" LCD reset
43	PL7	42	42	TOUCH_DIN	Digital in	3.2" touch screen data in (not used with HW SPI)
44	PL6	41	43	TOUCH_CS	Digital out	3.2" touch screen select (not used with HW SPI)
45	PL5	40	44	TOUCH_SCLK	Digital out	3.2" touch screen clock (not used with HW SPI)
46	PL4	39	45	ISOLATOR2_EN	Digital out	Ch#2 Data out (MISO) enable
47	PL3	38	46	IO_EXPANDER2	Digital out	Ch#2 MCP23S08 8-bit expander chip select
48	PL2	37	47	DAC2_SELECT	Digital out	Ch#2 DAC8552 DAC chip select
49	PL1	36	48	ADC2_SELECT	Digital out	Ch#2 ADS1120 ADC chip select
50	PL0	35	49	EEPROM_SELECT	Digital out	External EEPROM chip select
51	PB3	22	50	LCD_INT	Digital in	Riverdi 3.5" LCD Interrupt
52	PB2	21	51	LCD_PD	Digital out	Riverdi 3.5" LCD Power Down
53	PB1	20	52	—	—	—
54	PB0	19	53	LCDSD_CS	Digital out	3.2" LCD SD card select / 3.5" Riverdi mode select
55	PF0	97	54 (A0)	TEMP_ANALOG	Analog in	Main transformer NTC temperature sensor
56	PF1	96	55 (A1)	PWR_DIRECT	Digital out	AC power direct triac control
57	PF2	95	56 (A2)	PWR_SSTART	Digital out	AC power soft-start triac control
58	PF3	94	57 (A3)	DOUT2	Digital out	Rear panel power relay control
59	PF4	93	58 (A4)	BATT_NTC	Digital in	Opto-isolated V/F converter for Battery NTC
60	PF5	92	59 (A5)	NTC1	Analog in	Ch#1 NTC temperature sensor
61	PF6	91	60 (A6)	NTC2	Analog in	Ch#2 NTC temperature sensor
62	PF7	90	61 (A7)	EXT_TRIG	Digital in	External digital trigger input (3.3 or 5 V)
63	PK0	89	62 (A8)	ENC_B	Digital in	Rotary encoder channel B
64	PK1	88	63 (A9)	ENC_A	Digital in	Rotary encoder channel A
65	PK2	87	64 (A10)	ENC_SW	Digital in	Rotary encoder switch
66	PK3	86	65 (A11)	DOUT	Digital out	Opto-isolated digital output
67	PK4	85	66 (DAC0)	EXTSD_CS	Digital out	Micro SD card chip select
68	PK5	84	67 (DAC1)	—	—	—
69	PK6	83	68 (CANRX)	—	—	—
70	PK7	82	69 (CANTX)	—	—	—
71	PD0	43	—	—	—	—

72	PD1	44	–	–	–	–
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