	Arduino Due			EEZ Arduino shield+BP r3B3		
#	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	Touch screen interrupt request
4	PE5	7	3	TOUCH_DOUT	Digital in	Touch screen data out
5	PG5	1	4	WIFI_CE	Digital out	WIFI module Rx/Tx select (optional)
6	PE3	5	5	WATCHDOG	PWM 8-bit	TPS3705-33 reset supervisor watch-dog input (optional)
7	PH3	15	6	FAN_PWM	PWM 8-bit	FAN speed control
8	PH4	16	7	LCD_BRIGHTNESS	PWM 8-bit	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 en-able
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	LCD Data I/O 8
24	PA1	77	23	LCD_DB9	Digital out	LCD Data I/O 9
25	PA2	76	24	LCD_DB10	Digital out	LCD Data I/O 10
26	PA3	75	25	LCD_DB11	Digital out	LCD Data I/O 11
27	PA4	74	26	LCD_DB12	Digital out	LCD Data I/O 12
28	PA5	73	27	LCD_DB13	Digital out	LCD Data I/O 13
29	PA6	72	28	LCD_DB14	Digital out	LCD Data I/O 14
30	PA7	71	29	LCD_DB15	Digital out	LCD Data I/O 15
31	PC7	60	30	LCD_DB7	Digital out	LCD Data I/O 7
32	PC6	59	31	LCD_DB6	Digital out	LCD Data I/O 6
33	PC5	58	32	LCD_DB5	Digital out	LCD Data I/O 5
34	PC4	57	33	LCD_DB4	Digital out	LCD Data I/O 4
35	PC3	56	34	LCD_DB3	Digital out	LCD Data I/O 3
36	PC2	55	35	LCD_DB2	Digital out	LCD Data I/O 2
37	PC1	54	36	LCD_DB1	Digital out	LCD Data I/O 1

38	PC0	53	37	LCD_DB0	Digital out	LCD Data I/O 0
39	PD7	50	38	LCD_RESET	Digital out	LCD register select
40	PG2	70	39	LCD_CS	Digital out	LCD write
41	PG1	52	40	LCD_WR	Digital out	LCD select
42	PG0	51	41	LCD_RS	Digital out	LCD reset
43	PL7	42	42	TOUCH_DIN	Digital in	Touch screen data in (not used with HW SPI)
44	PL6	41	43	TOUCH_CS	Digital out	Touch screen select (not used with HW SPI)
45	PL5	40	44	TOUCH_SCLK	Digital out	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	MISO	Digital in	SPI MISO signal
52	PB2	21	51	MOSI	Digital out	SPI MOSI signal
53	PB1	20	52	SCLK	Digital out	SPI SCLK signal
54	PB0	19	53	LCDSD_CS	Digital out	LCD SD-card 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)	–	–	–
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_A	Digital in	Rotary encoder channel A (optional)
64	PK1	88	63 (A9)	ENC_B	Digital in	Rotary encoder channel B (optional)
65	PK2	87	64 (A10)	–	–	–
66	PK3	86	65 (A11)	–	–	–
67	PK4	85	66 (A12)	–	–	–
68	PK5	84	67 (A13)	PWD_RST	Digital in	Secure code reset
69	PK6	83	68 (A14)	–	–	–
70	PK7	82	69 (A15)	–	–	–
71	PD0	43	–	–	–	–
72	PD1	44	–	–	–	–