

| Arduino Due | | | | EEZ Arduino shield+BP r2B6b | | |
|-------------|----------|---------|--------------|-----------------------------|-------------|--|
| # | 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 | – | – | – |
| 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 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 | 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 | 50 | 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) | – | – | – |
| 64 | PK1 | 88 | 63 (A9) | – | – | – |
| 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 | – | – | – | – |