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pinConnections.txt

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```
// -- Power Pins --
// BLACK := VCC
// WHITE := GND

// -- Button Board --
// J1 := Brown
// J2 := Red
// J3 := Orange
// J4 := Yellow
// J5 := Green
// J6 := Blue
// J7 := Purple
// J9 := Gray
//
// GND := White
// VCC := Black
// SW_COM := *nc*
// COM_LVL := Brown (GND)
// COM_EN := Orange (7seg DEC7)

// -- 4 Digit Display --
// SEL0 := Green (PORTB 4)
// SEL1 := Blue (PORTB 5)
// SEL2 := Purple (PORTB 6)
// EN := White (VCC)
// EN_N := Black (GND)
// PWM := Gray (PORTF 3)
// DEC5 := *nc*
// DEC6 := *nc*
// DEC7 := Orange (buttonBoard COM_EN)
// NC := NC
//
// A := Brown (buttonBoard J1)
// B := Red (buttonBoard J2)
// C := Orange (buttonBoard J3)
// D := Yellow (buttonBoard J4)
// E := Green (buttonBoard J5)
// F := Blue (buttonBoard J6)
// G := Purple (buttonBoard J7)
// DP := Gray (buttonBoard J8)
//
// A_2 := Rib0-Red (PORTA 0)
// B_2 := Rib1 (PORTA 1)
// C_2 := Rib2 (PORTA 2)
// D_2 := Rib3 (PORTA 3)
// E_2 := Rib4 (PORTA 4)
// F_2 := Rib5 (PORTA 5)
// G_2 := Rib6 (PORTA 6)
// DP_2 := Rib7 (PORTA 7)
// GND := Rib8 (PORTA 8)
// VCC := Rib9 (PORTA 9)

// -- Encoders --
// NC := *nc*
// NC := Brown *nc*
// NC := Red *nc*
// NC := Orange *nc*
// SOUT := Yellow (PORTB 3)
```

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```
// SIN := Green *nc*
// CKINH := Blue (GND, Clock Inhibiter)
// SCK := Purple (PORTB 1, Clock)
// SH/LD := Gray (PORTE 6, Shift/Load)
// GND := White
// VCC := Black

// -- Bar Graph --
// SD_OUT := Brown *nc*
// SRCLK := Red (PB1 SCLK)
// REGCLK := Orange (PB0)
// OE_N := Yellow (PB7)
// SDIN := Green (PB2 MOSI)
// VDD := Black
// GND := White

// -- PORTA -> 4 Digit Display --
// PA0 := Rib0 (Red)
// PA1 := Rib1
// PA2 := Rib2
// PA3 := Rib3
// PA4 := Rib4
// PA5 := Rib5
// PA6 := Rib6
// PA7 := Rib7
// PA8 := Rib8
// PA9 := Rib9

// -- PORTB --
// PB0 := Orange ( bargraph REGCLK)
// PB1 := Red ( bargraph&encoder SCLK)
// PB2 := Green ( bargraph MOSI)
// PB3 := YELLOW (encoder SIN)
// PB4 := Green (7seg SEL0)
// PB5 := Blue (7seg SEL1)
// PB6 := Purple (7seg SEL2)
// PF3 := Gray (7seg PWM)
// PB8 := White (GND)
// PB9 := Black (VCC)

// -- PORTD --
// PD0 := SCL (TWI temp)
// PD1 := SDA (TWI temp)
// PD2 := (UART1 RX)
// PB3 := (UART1 TX)
// PD4 := Gray (Shift/Load encoder)
// PD5 := Yellow ( bargraph OE_N)
// PD6 := *nc*
// PD7 := Purple (PWM for alarm beeping)
// PD8 := White (GND)
// PD9 := Black (VCC)

// -- PORTE--
// PE0 := *nc*
// PE1 := Reset_N (Radio)
// PE2 := *nc*
// PE3 := PurVolume PWM
```

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```
// PE4 := *nc*
// PE5 := *nc*
// PE6 := *nc*
// PE7 := Int7      (Radio)
// PE8 := *nc*
// PE9 := *nc*

// -- PORTF --
// PF0 := *nc*
// PF1 := *nc*
// PF2 := *nc*
// PF3 := *nc*
// PF4 := *nc*
// PF5 := *nc*
// PF6 := *nc*
// PF7 := Orange    (CdS Brightness)
// PF8 := *nc*
// PF9 := *nc*
```