

Freely available.
Here, analog
signals or, for
example, a human
interface module
02/10 could be
attached.

PA0	40
PA1	39
PA2	38
PA3	37
PA4	36
PA5	35
PA6	34
PA7	33

LEDGREEN	1
LEDAMBER	2
LEDRED	3
PIEZO	4

SPI / programmer
freely available.

MOSI	6
MISO	7
SCK	8

ATmega1284			
PA0		SCL PC0	22
PA1		SDA PC1	23
PA2		TCK PC2	24
PA3		TMS PC3	25
PA4		TDO PC4	26
PA5		TDI PC5	27
PA6		TOSC1 PC6	28
PA7		TOSC2 PC7	29
PB0	XCK/T0	RX0 PD0	14
PB1	T1	TX0 PD1	15
PB2	INT2	RX1 INT0 PD2	16
PB3	OC0	TX1 INT1 PD3	17
PB4	SS#	OC1B PD4	18
PB5	MOSI	OC1A PD5	19
PB6	MISO	ICP1 PD6	20
PB7	SCK	OC2 PD7	21

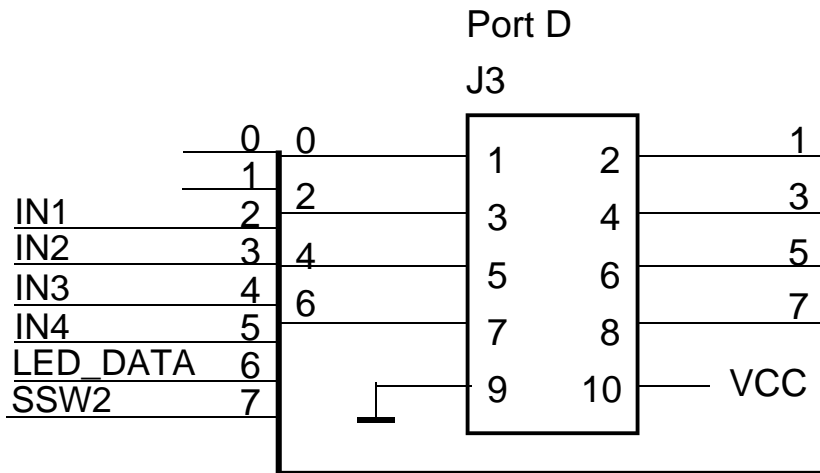
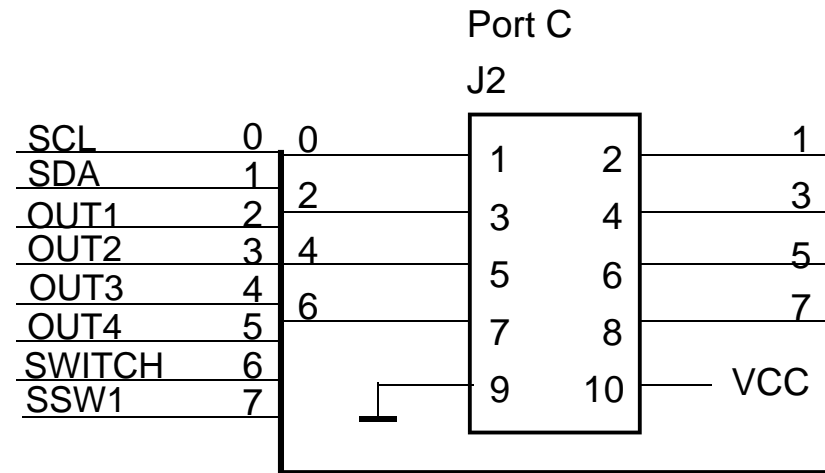
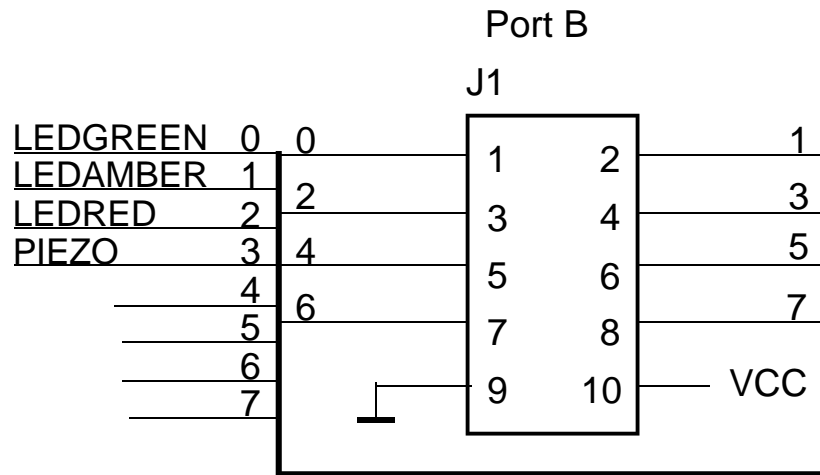
SCL	22
SDA	23
OUT1	24
OUT2	25
OUT3	26
OUT4	27
SWITCH	28
SSW1	29

RX	14	Serial communication
TX	15	
IN1	16	
IN2	17	
IN3	18	
IN4	19	
LED_DATA	20	
SSW2	21	

Here it is shown, how an example microcontroller could be connected to the ports of the LED trainer.

LED Trainer Type 1

Scroll pHAT / Unicorn pHAT / Pibrella
Example microcontroller attachment
Sheet 1 of 5
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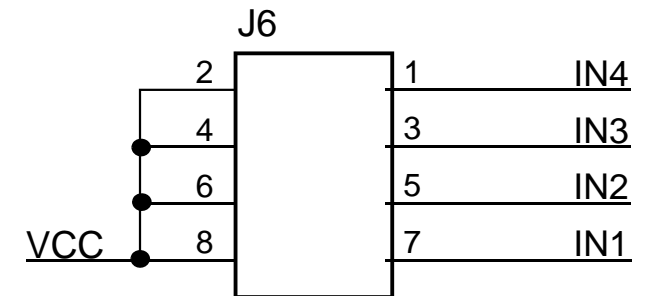
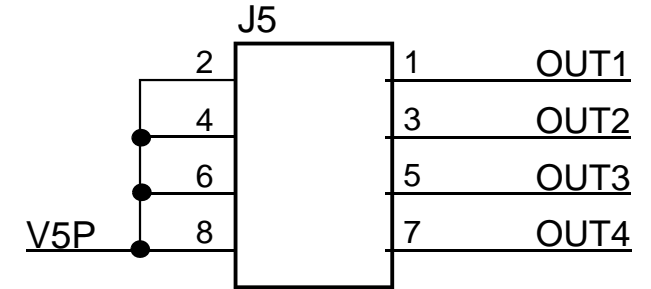
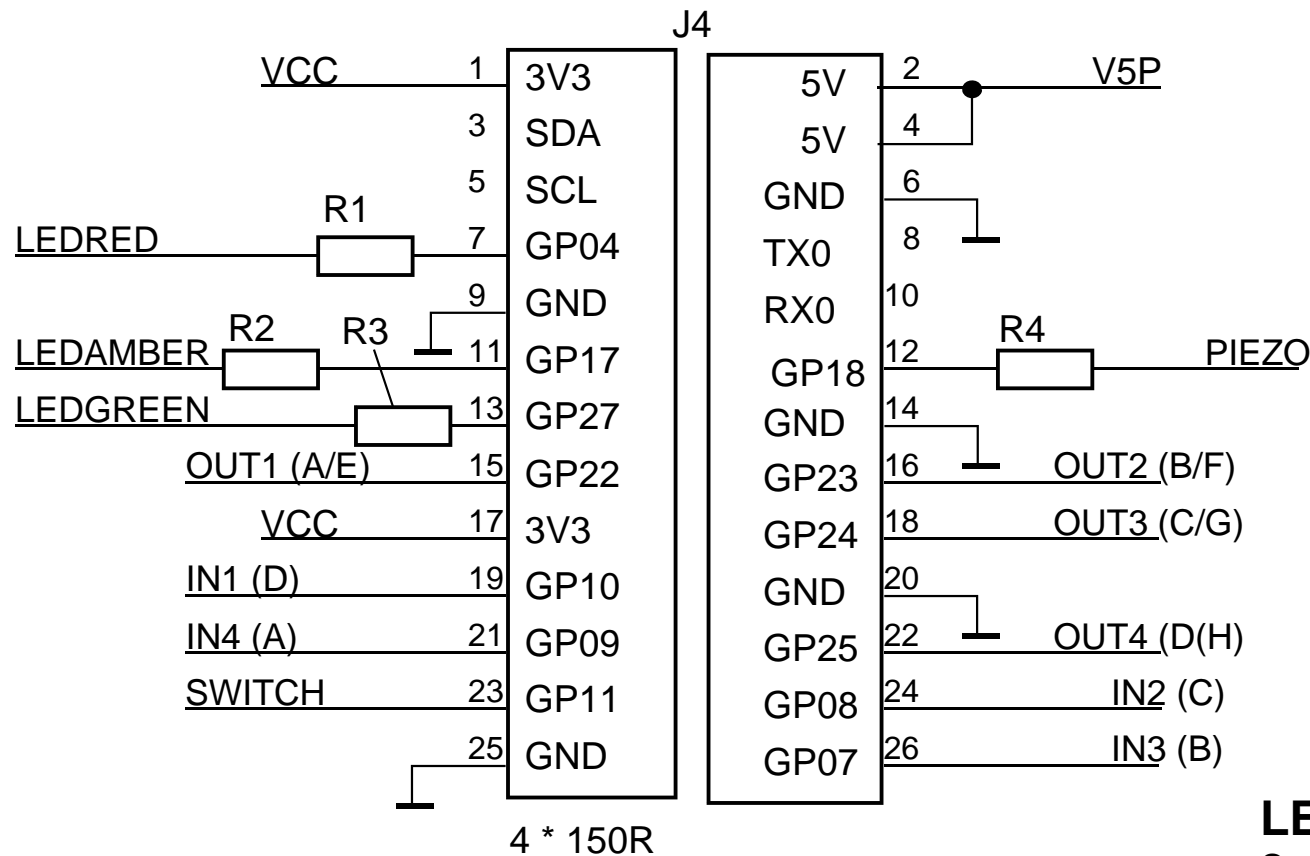
LED Trainer Type 1

Scroll pHAT / Unicorn pHAT / Pibrella
I/O port connectors

Sheet 2 of 5

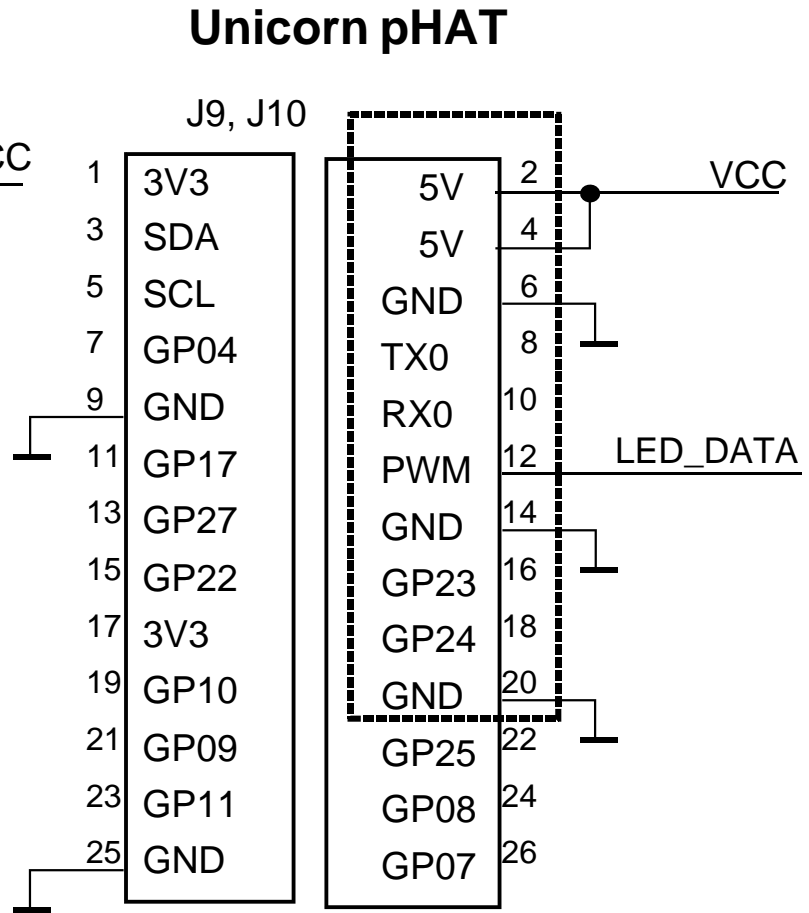
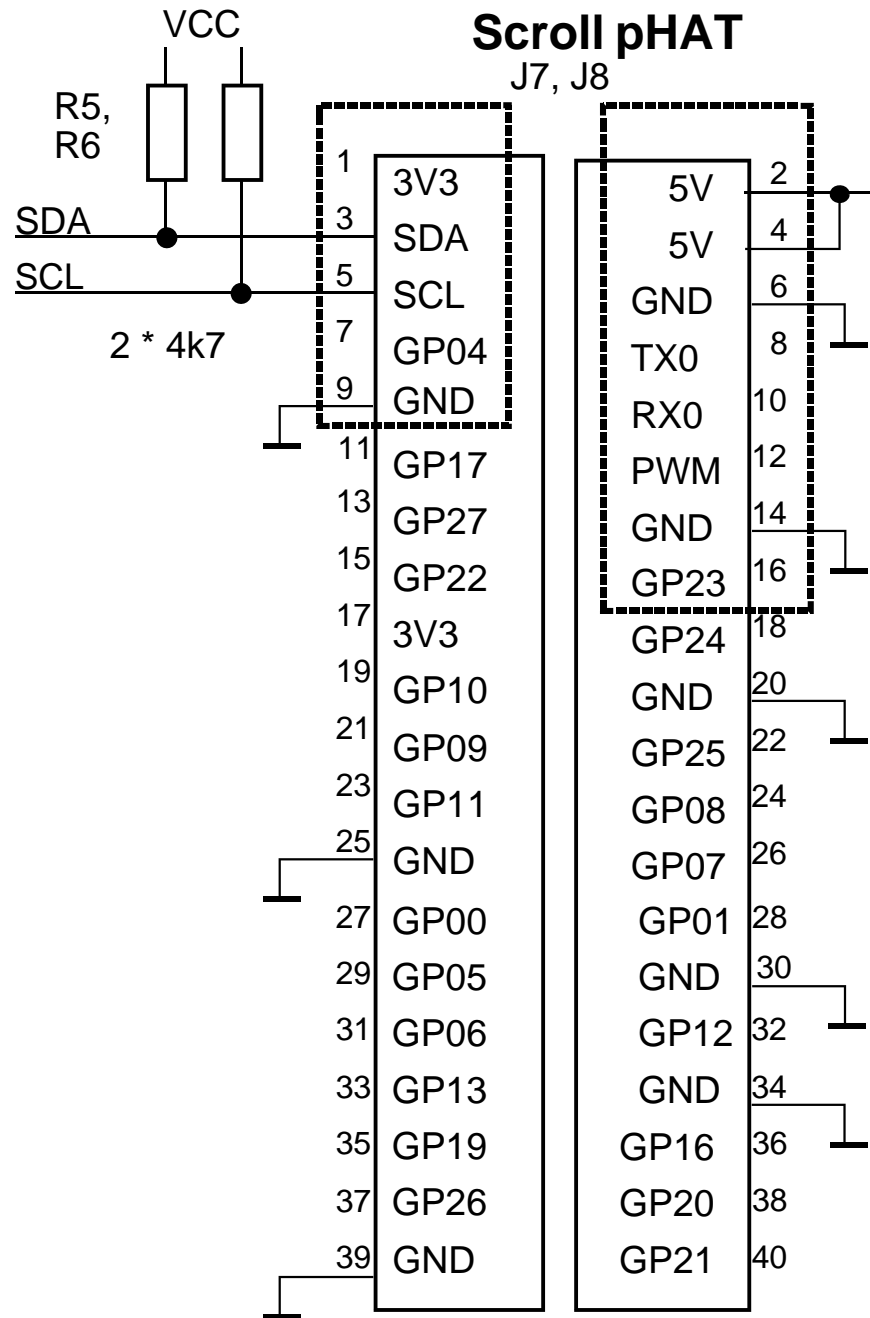
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Pibrella

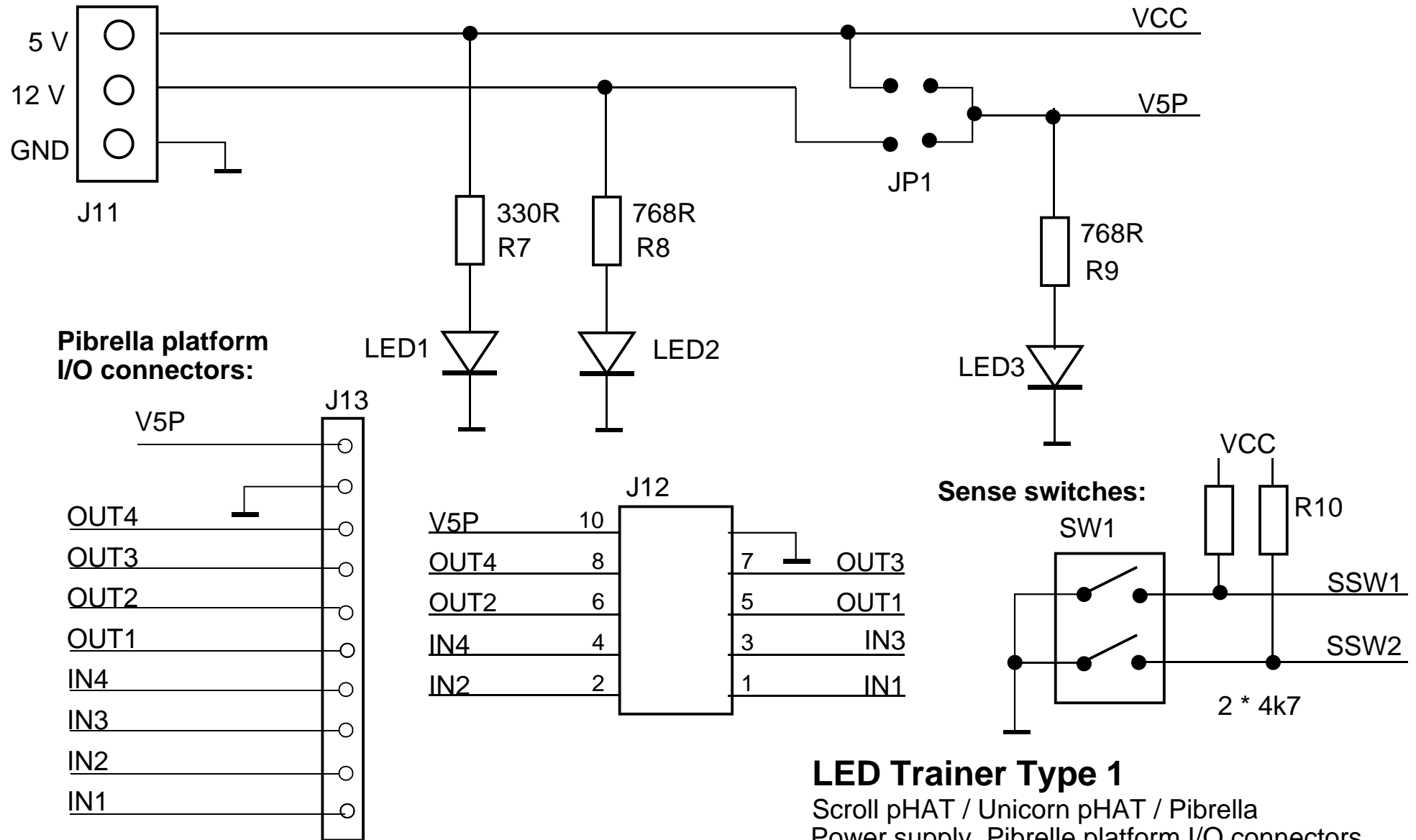


LED Trainer Type 1

Scroll pHAT / Unicorn pHAT / Pibrella
Pibrella connectors
Sheet 3 of 5
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LED Trainer Type 1
 Scroll pHAT / Unicorn pHAT connectors
 Sheet 4 of 5
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LED Trainer Type 1

Scroll pHAT / Unicorn pHAT / Pibrella
 Power supply, Pibrelle platform I/O connectors,
 sense switches

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