

**GPIB-USB adapter**

Serial TTL to USB

Power rail filter

The datasheet calls for a ceramic cap of between 0.22 and 0.47uF on VUSB.

U1 MCP2221A

URx 5 TX 6 RX 6

VDD 1 RESET 4 VUSB 11 VSS 14

SCL 10 SDA 9

GP0 2 GP1 3 GP2 7 GP3 8

D+ 13 D- 12

R3 330 0W25 R4 330 0W25

D1 TX LED D2 RX LED

J1 USB\_B

C2 ceramic 10nF C3 ceramic 10uF C7 ceramic 0.4uF C8 ceramic 0.1uF C9 ceramic 0.1uF C5 ceramic 47pF C6 ceramic 47pF

FB1 FERRITE\_BEAD

IC1 ATMEGA168PA-P

VCC 7 AVCC 20 AREF 21

PL\_DIP:DIP28

ERR\_LED

5V

RX TX JMP1

P2 GPIB

DIO1 1 DIO2 2 DIO3 3 DIO4 4 DIO5 13 DIO6 14 DIO7 15 DIO8 16

DAV 6 NRFD 7 NDAC 8

IFC 9 ATN 11 SRQ 10 REN 17 EOI 5

SHIELD 12 DAV\_GND 18 NRFD\_GND 19 NDAC\_GND 20 IFC\_GND 21 SRQ\_GND 22 ATN\_GND 23 DGDND 24

5V

R5 330 0W25

ERR\_LED

D3 ERR\_LED

JMP1

CONN\_4X1

CONN\_2X1

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