ELZET 80

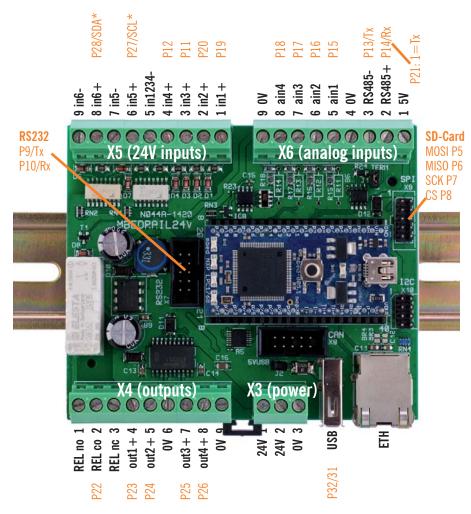


NET-mbedRAIL24V

industrial breakout board

mbedRail24V attempts to make all of LPC1768 module's i/o available for industrial use in a DIN-rail module. (Even more i/o are available when using our kBed Kinetis K60 module...)

Pin assignments for LPC1768 mbed module





Power and I/O

All terminals named 24V are interconnected and all terminals named 0V.

Power requirements:

24V (19..28V): 50mA (all i/o passive), fused at 8A max.

Ambient temperature -40.. +50°C

24V outputs switch 1A max. (high side), connect load to ground.

24V inputs (optoisolated) draw less than 20mA from 24V

Relay output 60VDC/48VAC @ 8A max.

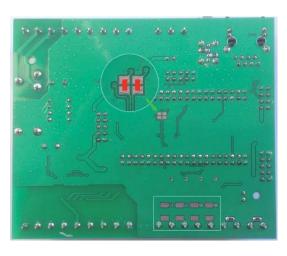


Settings

*Due to a lack of pins on the LPC1768 mbed, in5 and in6 can only be used if I²C is not used. If you don't need I²C.

make two solder joints on the bottom of the pcb as marked in red here. Our kbed module is an alternative to use I²C and all 6 inputs.

If you need current input for analog, solder four shunt resistors in the area marked with the rectangle.





Software Setup

See the instructions and demo on mbed.org: http://mbed.org/components/mbed-Rail-24-V

The SD-card adapter (not shown here) is supported by the standard file system driver available on mbed.org.

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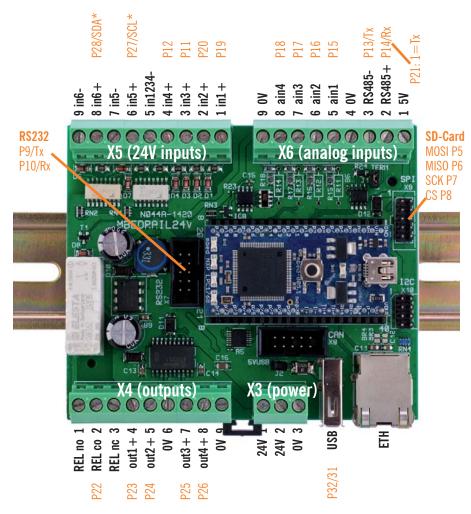


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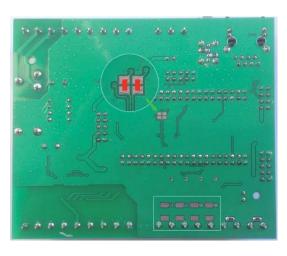


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