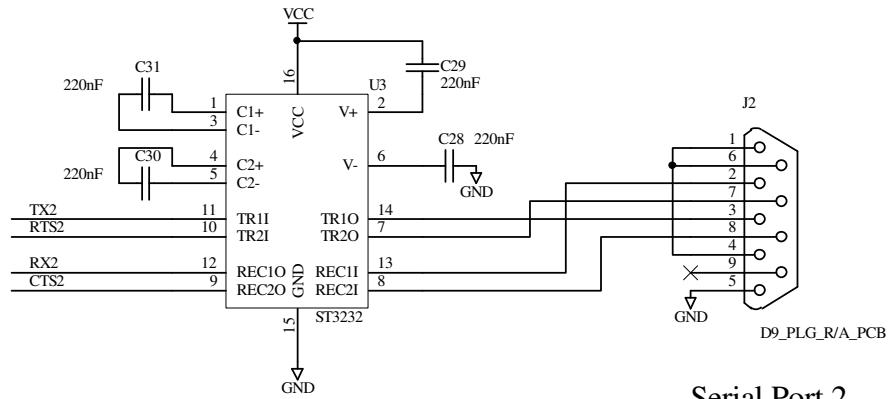
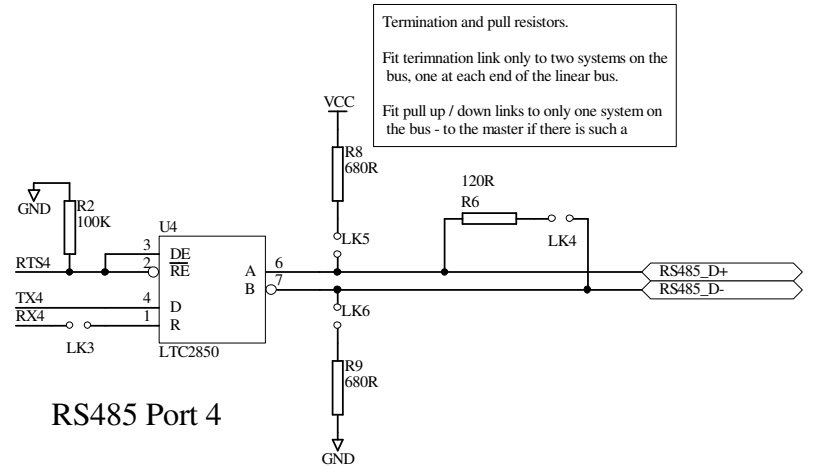


Serial Port 1



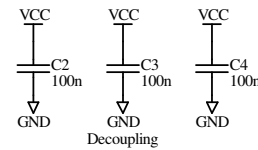
Serial Port 2

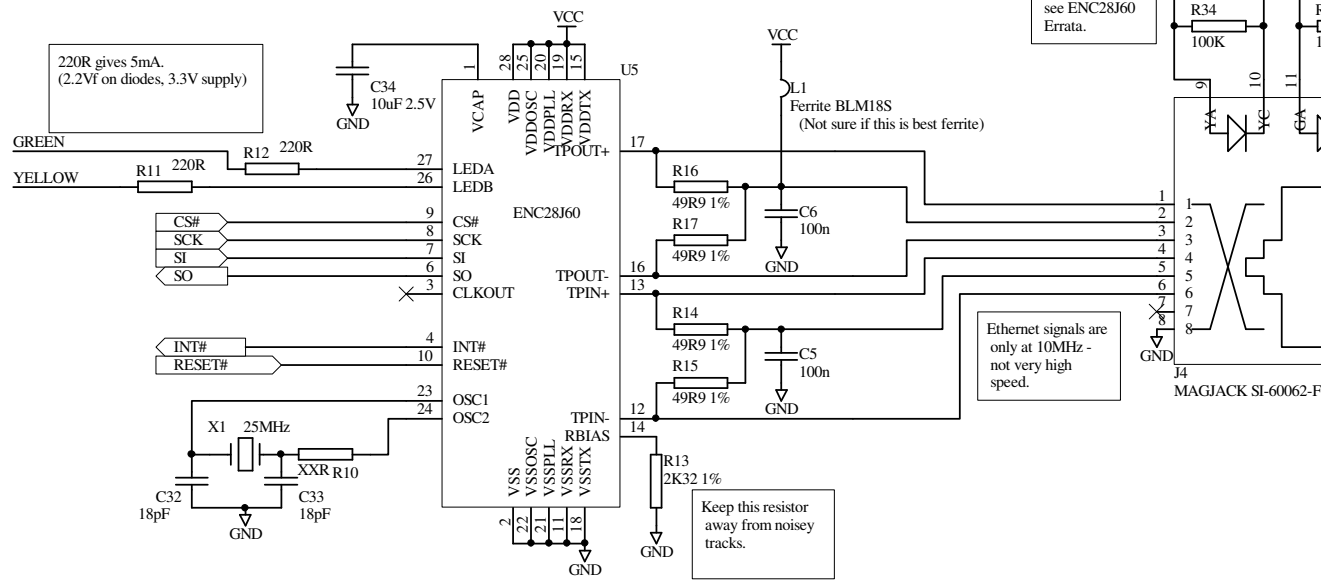


RS485 Port 4

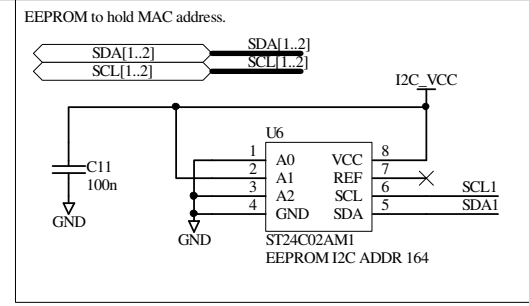
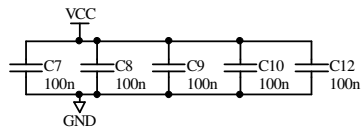
HALF DUPLEX RS485 PORT WITH TERMINATION AND PULL UP/DOWNS

Termination and pull resistors.
Fit termination link only to two systems on the bus, one at each end of the linear bus.
Fit pull up / down links to only one system on the bus - to the master if there is such a





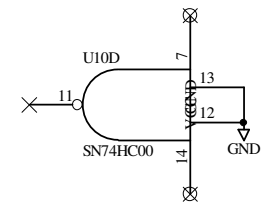
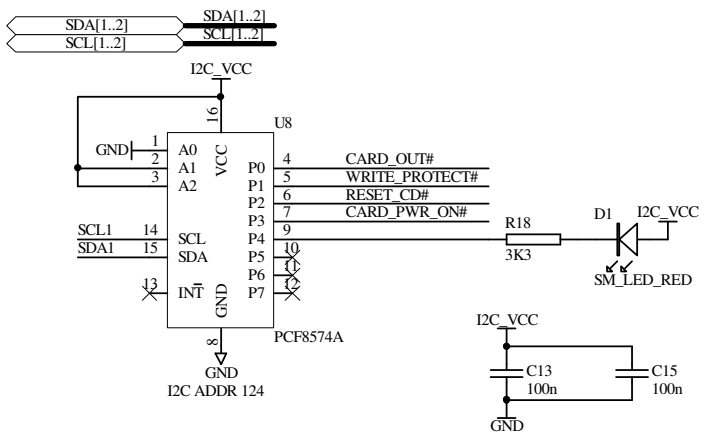
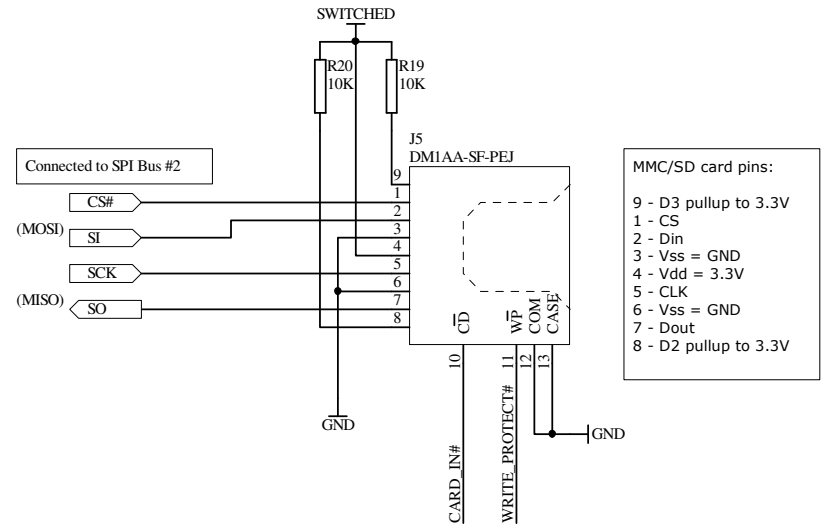
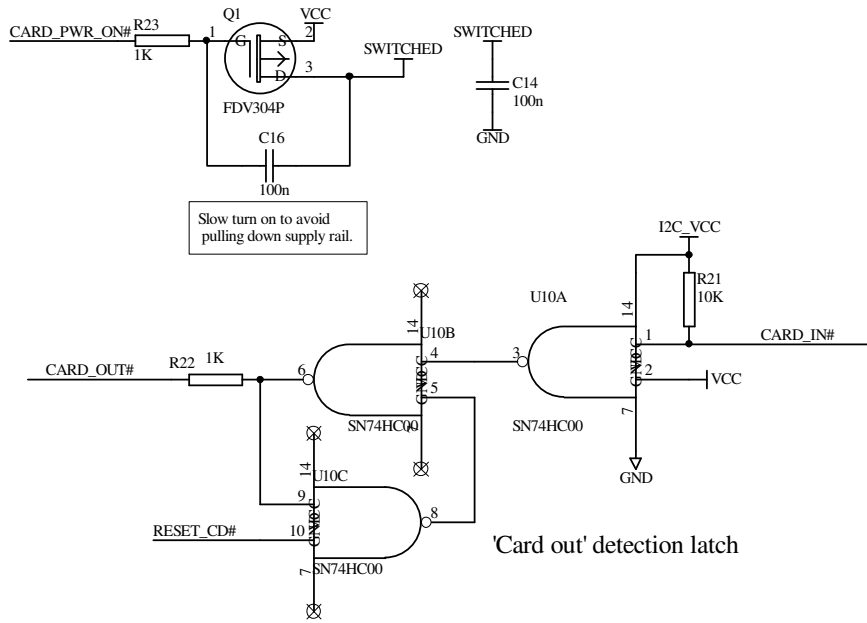
SPI to Ethernet device

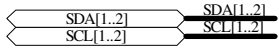


Default to full duplex: LEDB pull up or down determines this.
Pulled up: Default is full duplex.

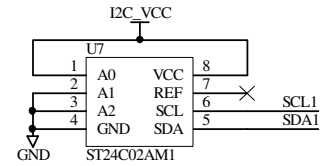
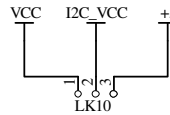
Rs || to LEDs:
see ENC28J60 Errata.

Ethernet signals are only at 10MHz - not very high speed.

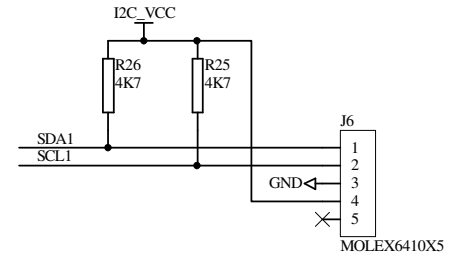




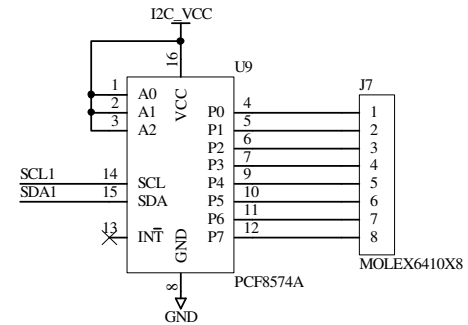
So users can change the I2C Bus voltage.
 ALL I2C Bus devices must be powered by I2C_VCC !



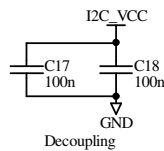
EEPROM I2C ADDR 162



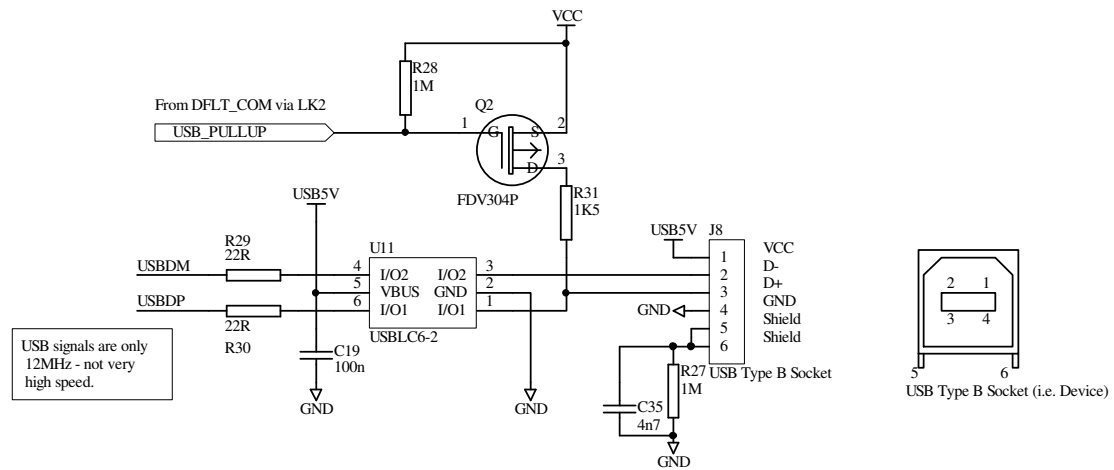
IIC Bus 1



4x4 Matrix Keypad
 I2C ADDR 126

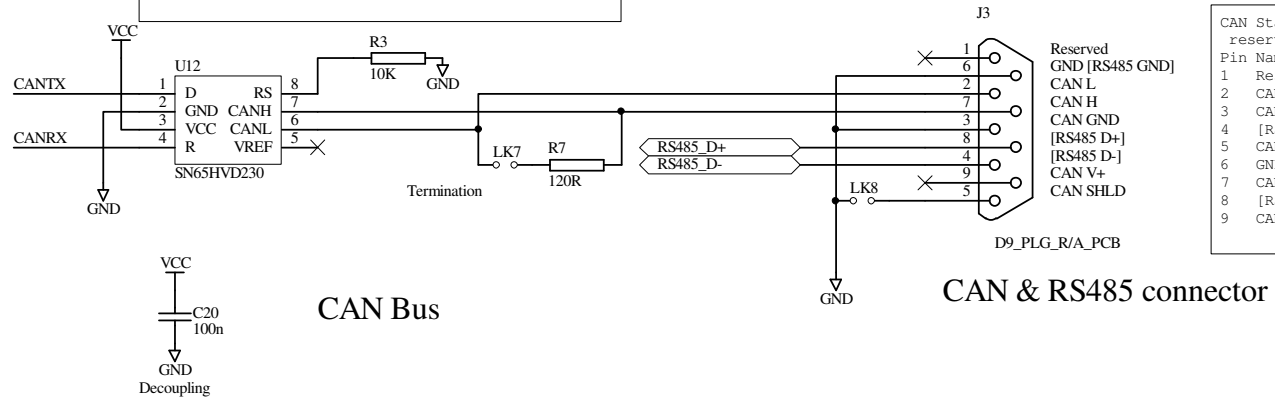


I2C Bus	© Venom Control Systems Ltd. 128 Low Road Burwell CB25 0EJ Cambs Tel. +44 (0) 1223 459232
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File:	



USB 'Slave' Port. 12MHz

Through-hole resistor to allow customisation of this slope/power control terminal.
No need to pull up input D as it is pulled to recessive state on open cct.

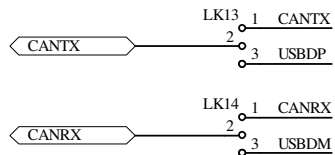


CAN Bus

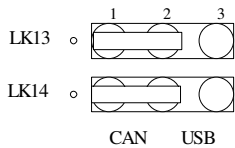
CAN & RS485 connector

CAN Standard connector with 2 reserved pins used for RS485:

Pin Name	Description
1	Reserved Upgrade Path
2	CAN_L Dominant Low
3	CAN_GND Ground
4	[RS485 D-]
5	CAN_SHLD Shield, Optional
6	GND Ground, Optional
7	CAN_H Dominant High
8	[RS485 D+]
9	CAN_V+ Power, Optional



CAN Bus and USB are on the same processor pins. They can't be used concurrently. Diagram shows CAN function selected.

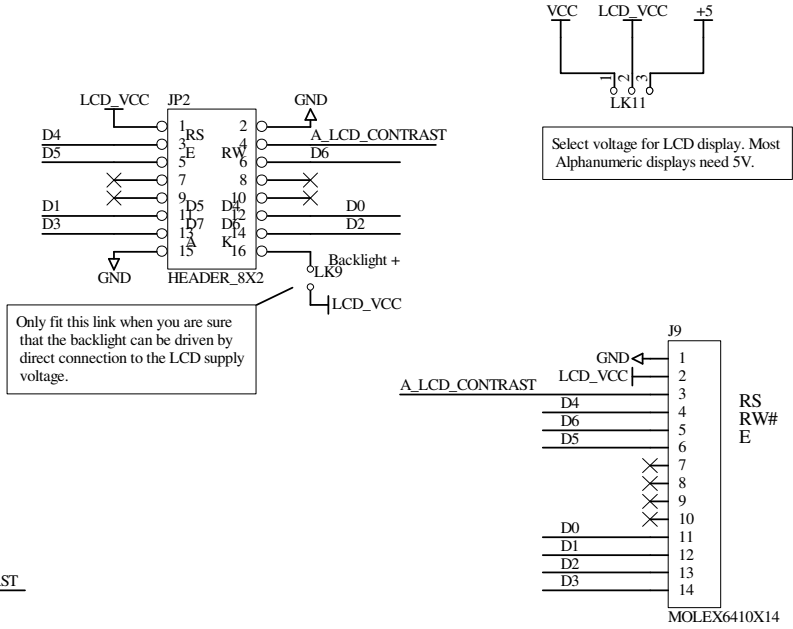




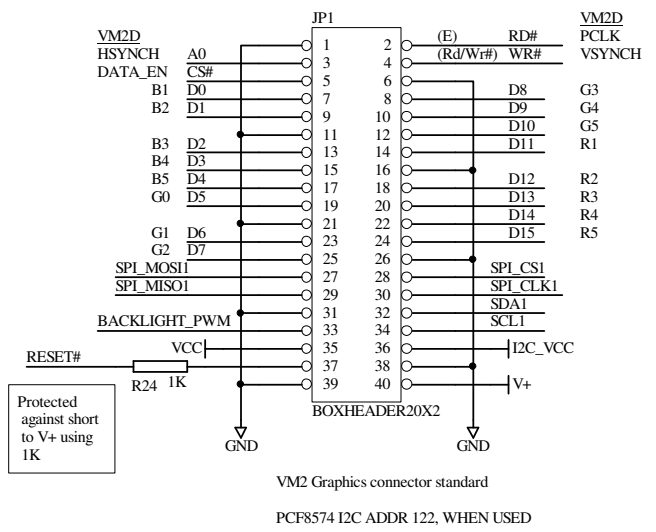
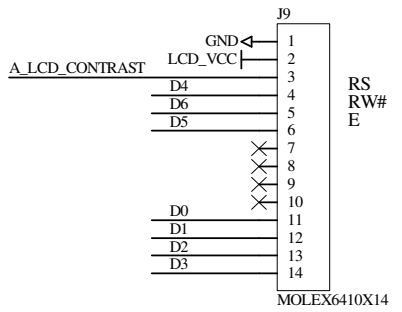
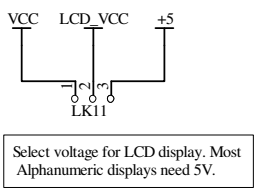
ALPHALCD REVERSE DIL IDC CONNECTOR

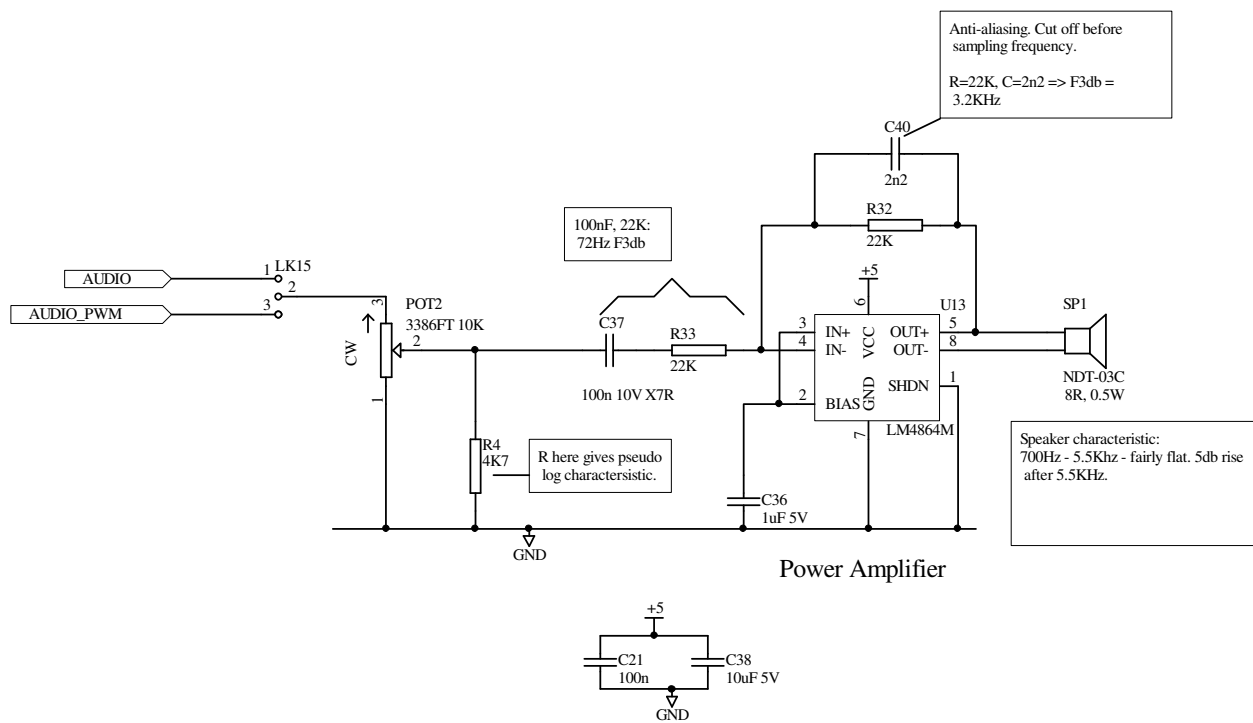
Can also support PLED displays

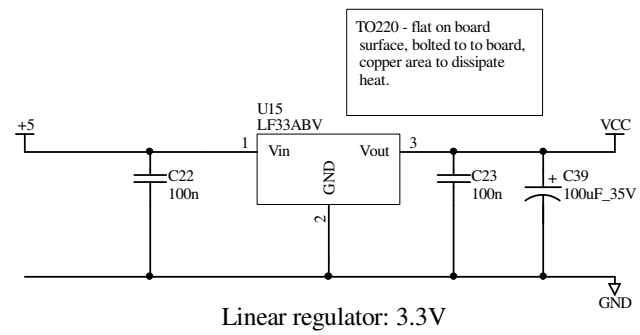
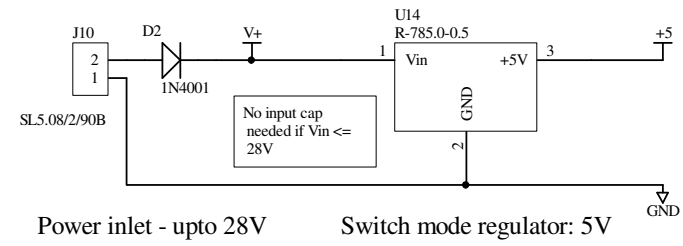
This pinout is for DIL connectors to an LCD where a transition connector has been soldered in to the BACK side of the LCD unit.



ALPHA LCD - SIL connector
Can also support PLED displays







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