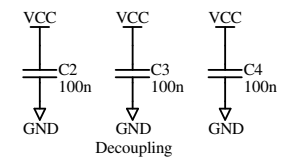


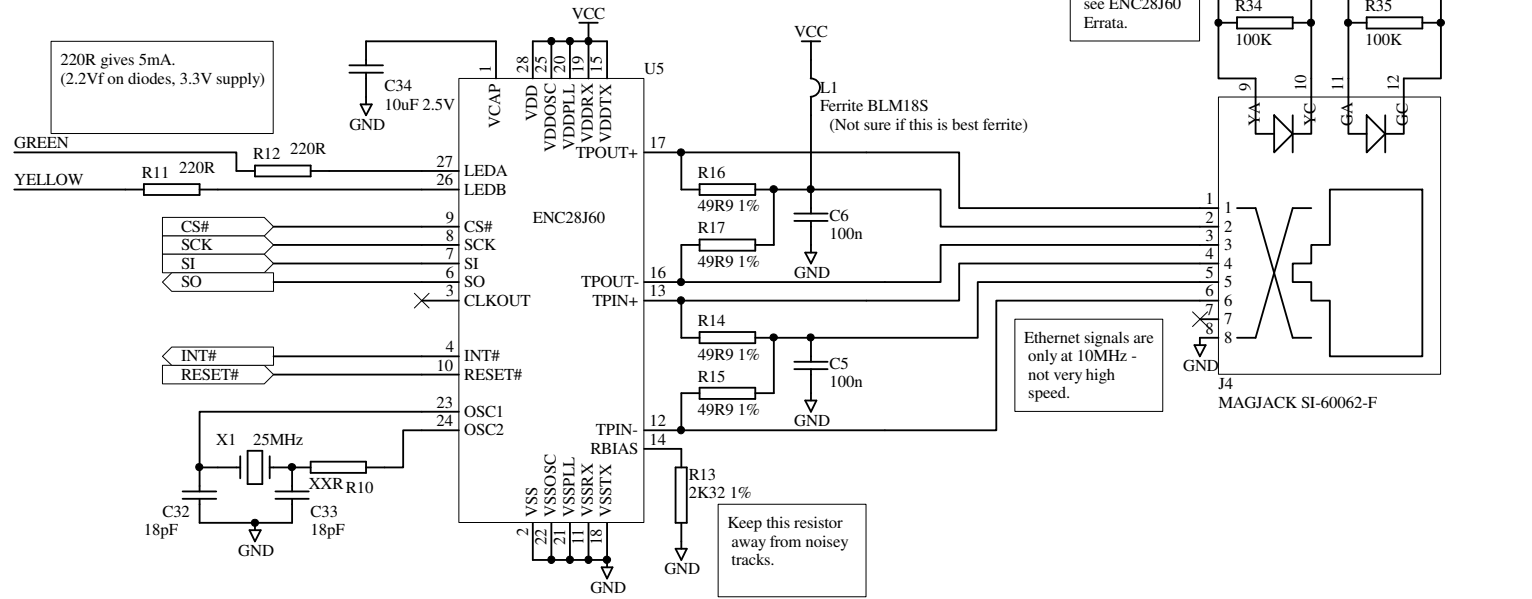
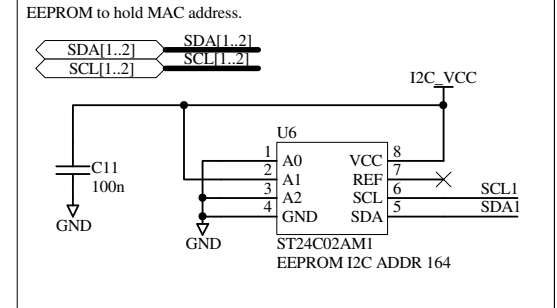
RS485 Port 4

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

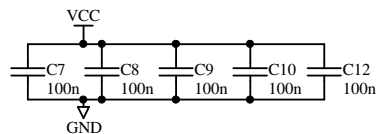


RS232 & 485		Micro-Robotics Ltd. The Old Maltings 135 Ditton Walk Cambridge CB5 8QB Tel. +44 (0) 1223 523100
Revision:		
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File: H:\Products\VM2\VM2 - STM32\AppBoard\SERIAL.SCH		

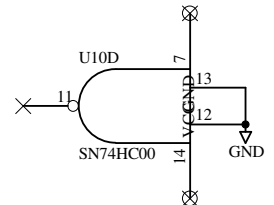
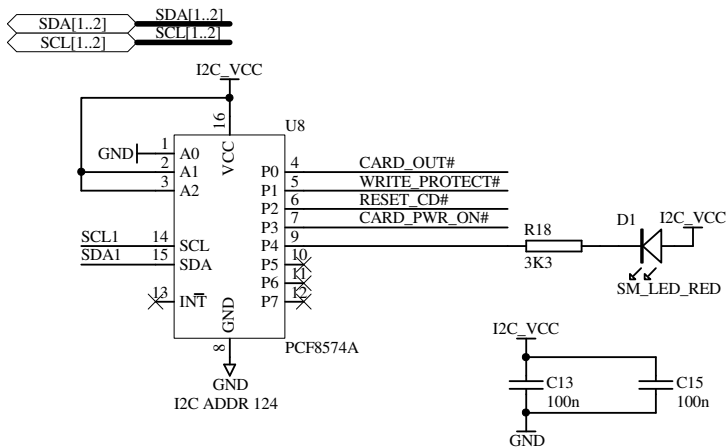
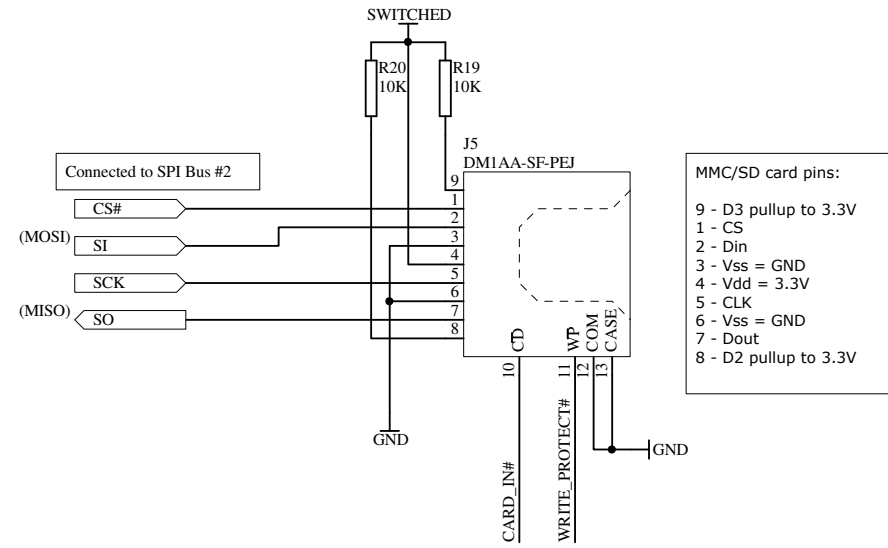
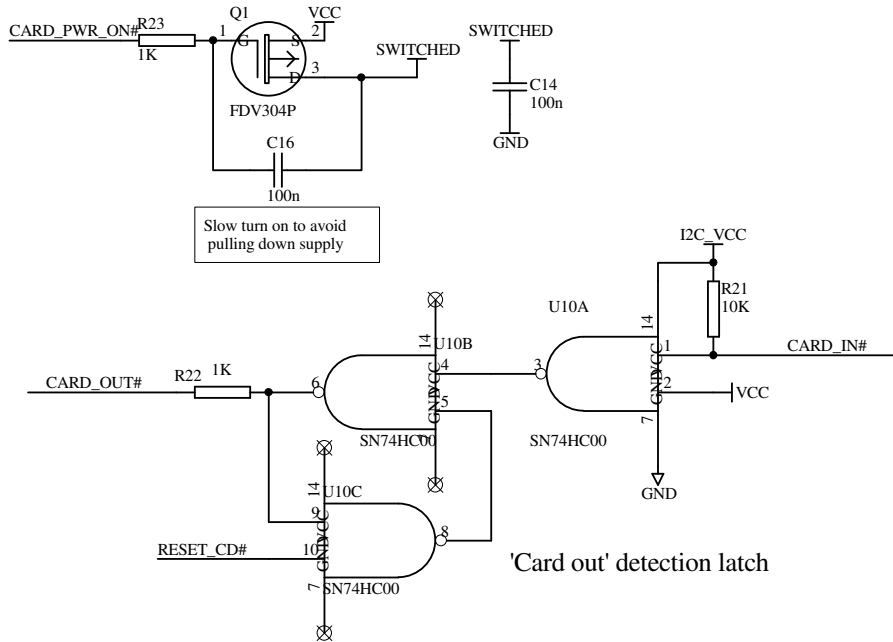


Default to full duplex: LEDB pull up or down determines this.
Pulled up: Default is full duplex.

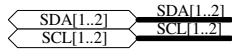
SPI to Ethernet device



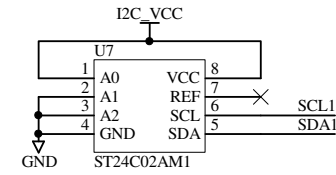
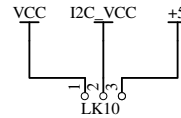
Ethernet	Micro-Robotics Ltd. The Old Maltings 135 Ditton Walk Cambridge CB5 8QB Tel. +44 (0) 1223 523100
Revision:	
Date: 12-Apr-2010 15:12:14	
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File: H:\Products\VM2\VM2 - STM32AppBoard\Ethernet.SCH	



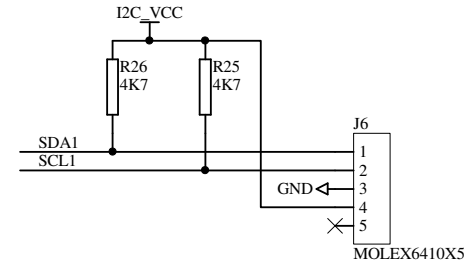
Memory Card		Micro-Robotics Ltd. The Old Maltings 135 Ditton Walk Cambridge CB5 8QB Tel. +44 (0) 1223 523100
Revision:		
Date: 12-Apr-2010 15:12:14		
Sheet 5 of 10		
File: H:\Products\VM2\VM2 - STM32\AppBoard\MemCard.Sch		



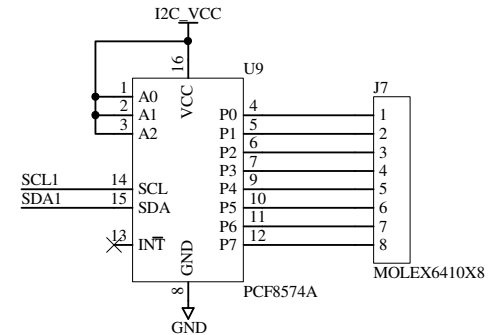
So users can change the I2C Bus voltage.
 ALL I2C Bus devices must be powered by I2C_VCC !



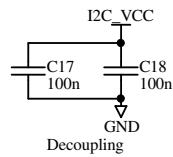
EEPROM I2C ADDR 162



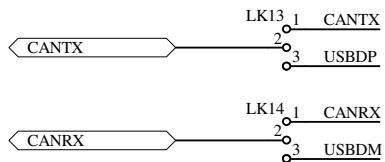
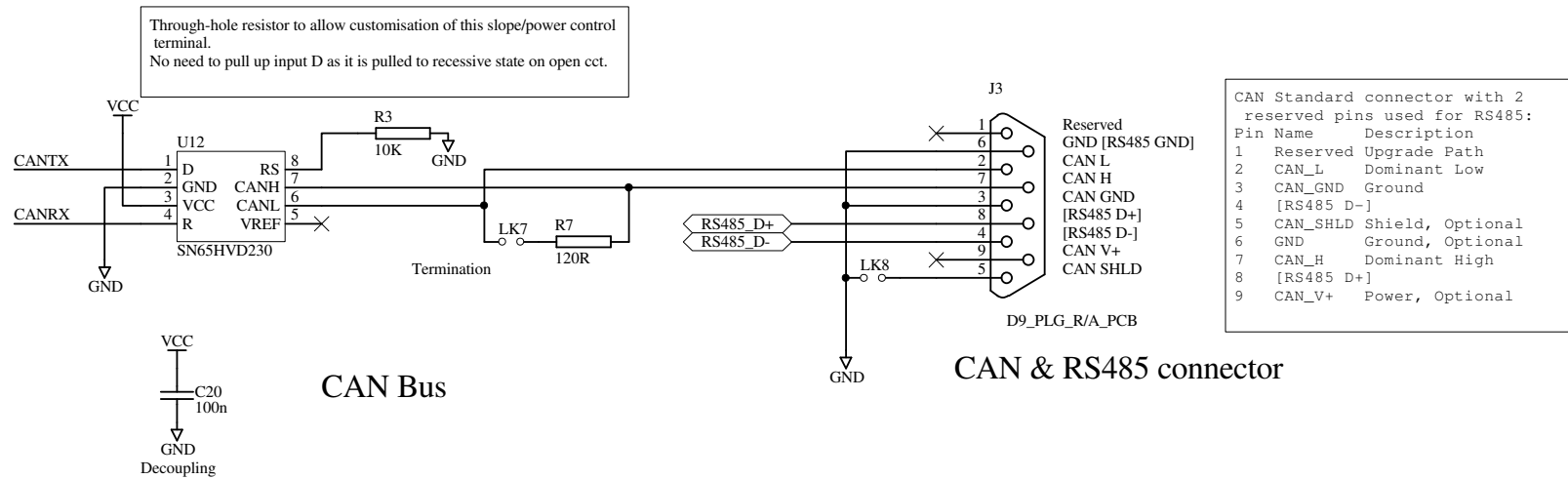
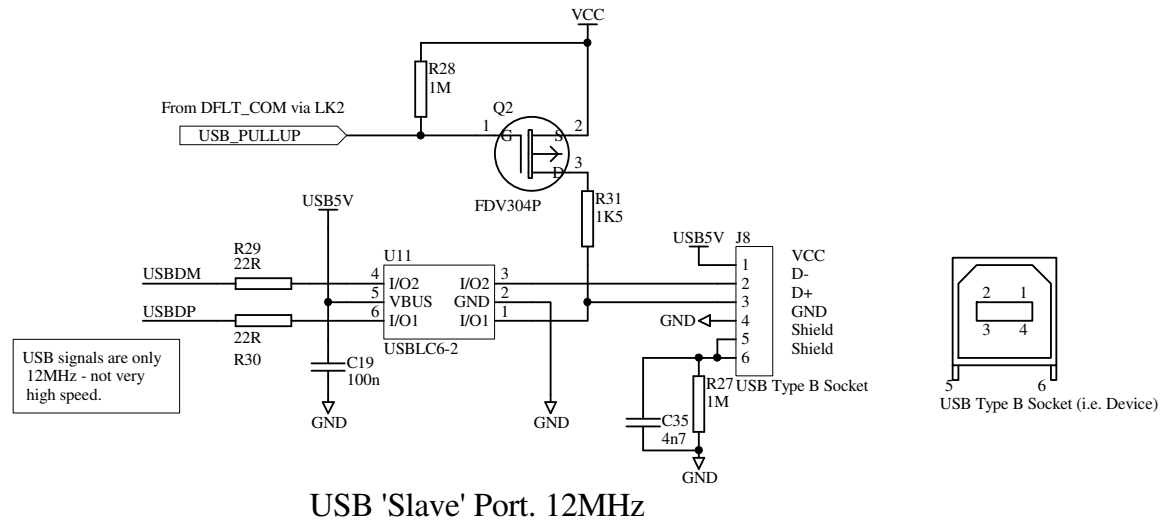
I2C Bus 1



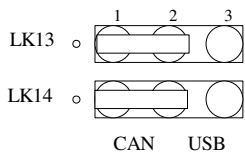
4x4 Matrix Keypad
 I2C ADDR 126

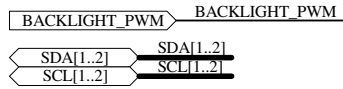
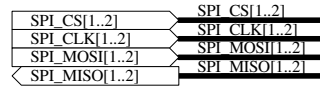
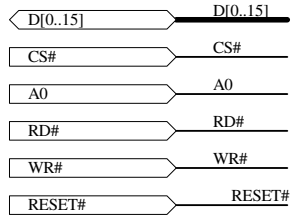


I2C Bus	Micro-Robotics Ltd. The Old Maltings 135 Ditton Walk Cambridge CB5 8QB Tel. +44 (0) 1223 523100
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File: H:\Products\VM2\VM2 - STM32\AppBoard\I2C.sch	



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

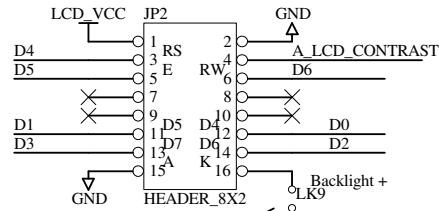




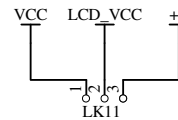
ALPHALCD REVERSE DIL IDC CONNECTOR

Can also support PLED displays

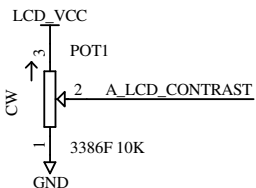
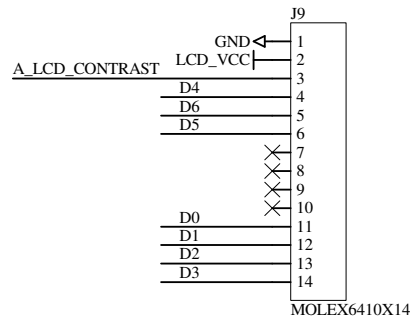
This pinout is for DIL connectors to an LCD where a transition connector has been soldered in to the BACK side of the LCD unit.



Only fit this link when you are sure that the backlight can be driven by direct connection to the LCD supply voltage.

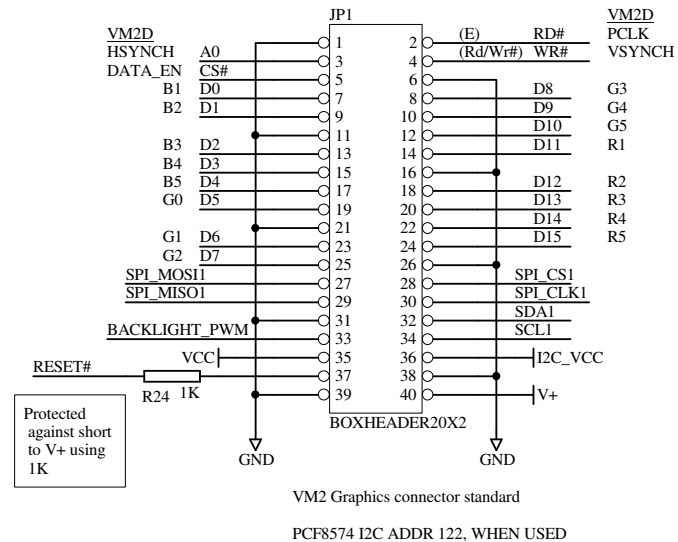


Select voltage for LCD display. Most Alphanumeric displays need

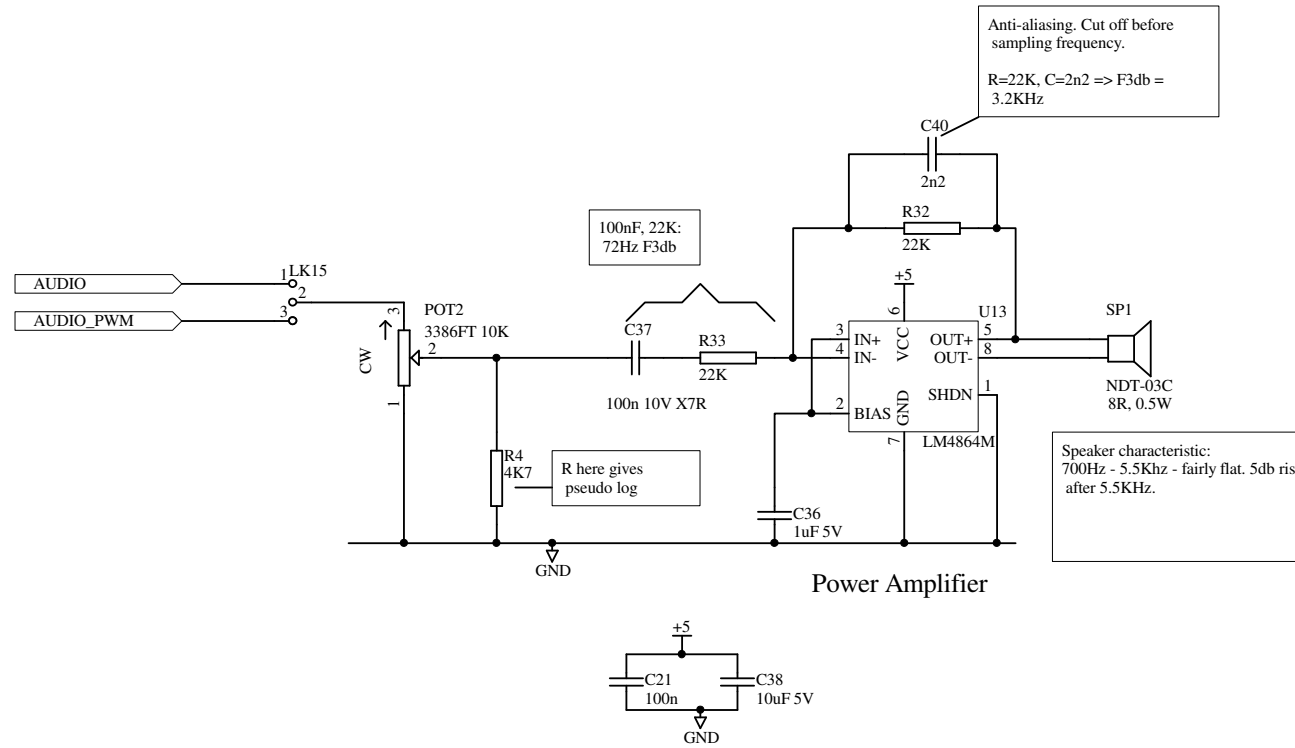


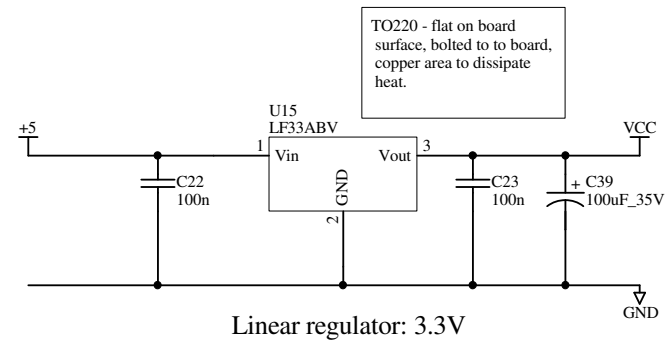
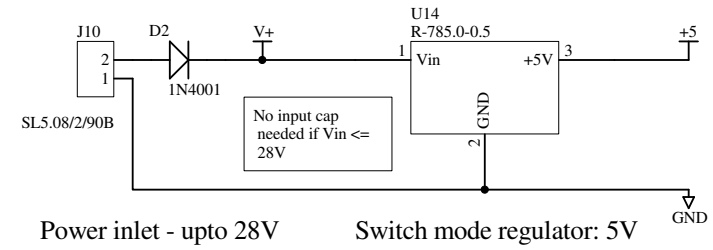
ALPHA LCD - SIL connector

Can also support PLED displays



LCDs	Micro-Robotics Ltd. The Old Maltings 135 Ditton Walk Cambridge CB5 8QB Tel. +44 (0) 1223 523100
Revision:	
Date: 12-Apr-2010 15:12:15	
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File: H:\Products\VM2\VM2 - STM32\AppBoard\LCD.Sch	





PSU	Micro-Robotics Ltd.
Revision:	The Old Maltings
Date: 12-Apr-2010 15:12:16	135 Ditton Walk
Sheet 10 of 10	Cambridge CB5 8QB
File: H:\Products\VM2\VM2 - STM32\AppBoard\PSU.sch	Tel. +44 (0) 1223 523100