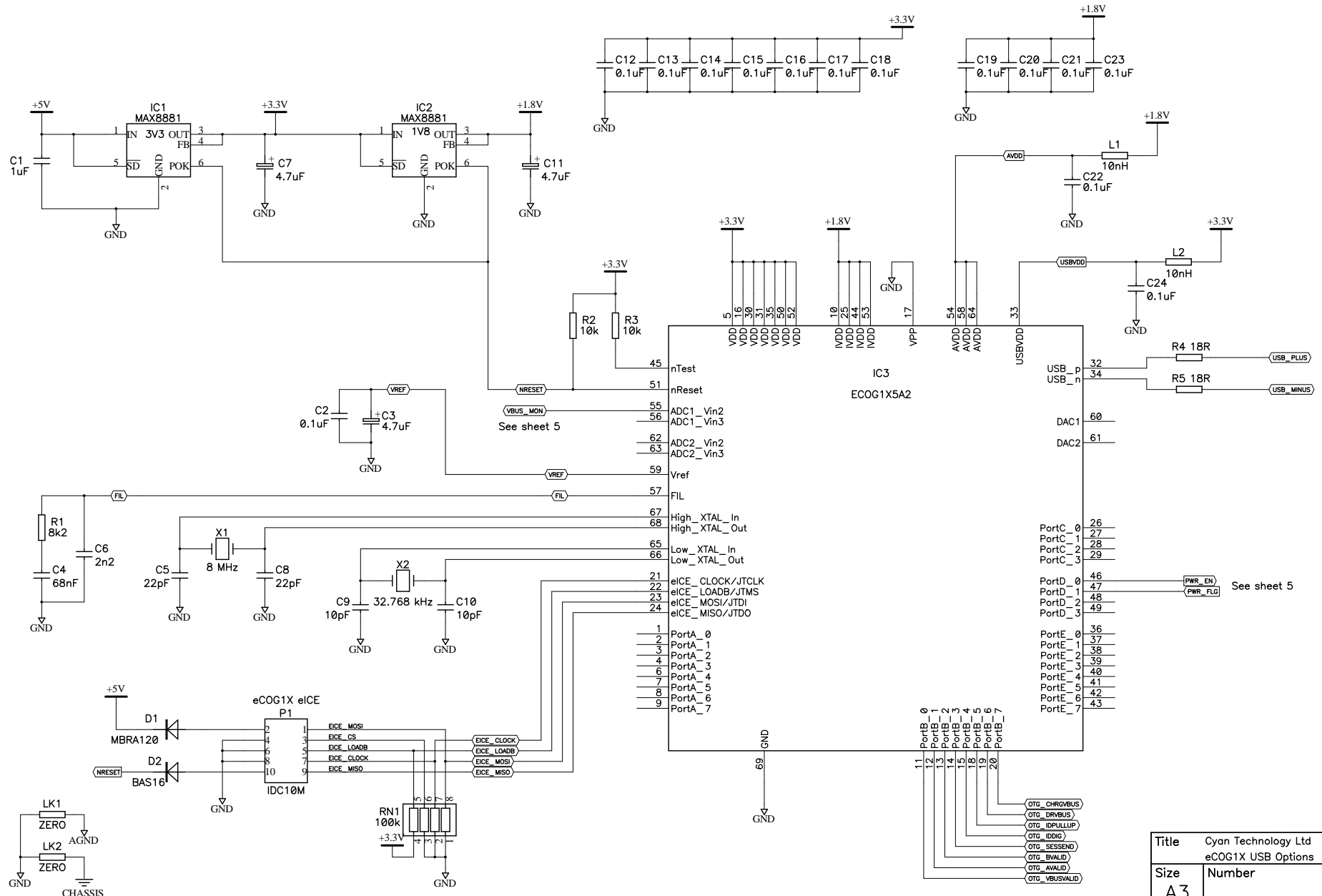


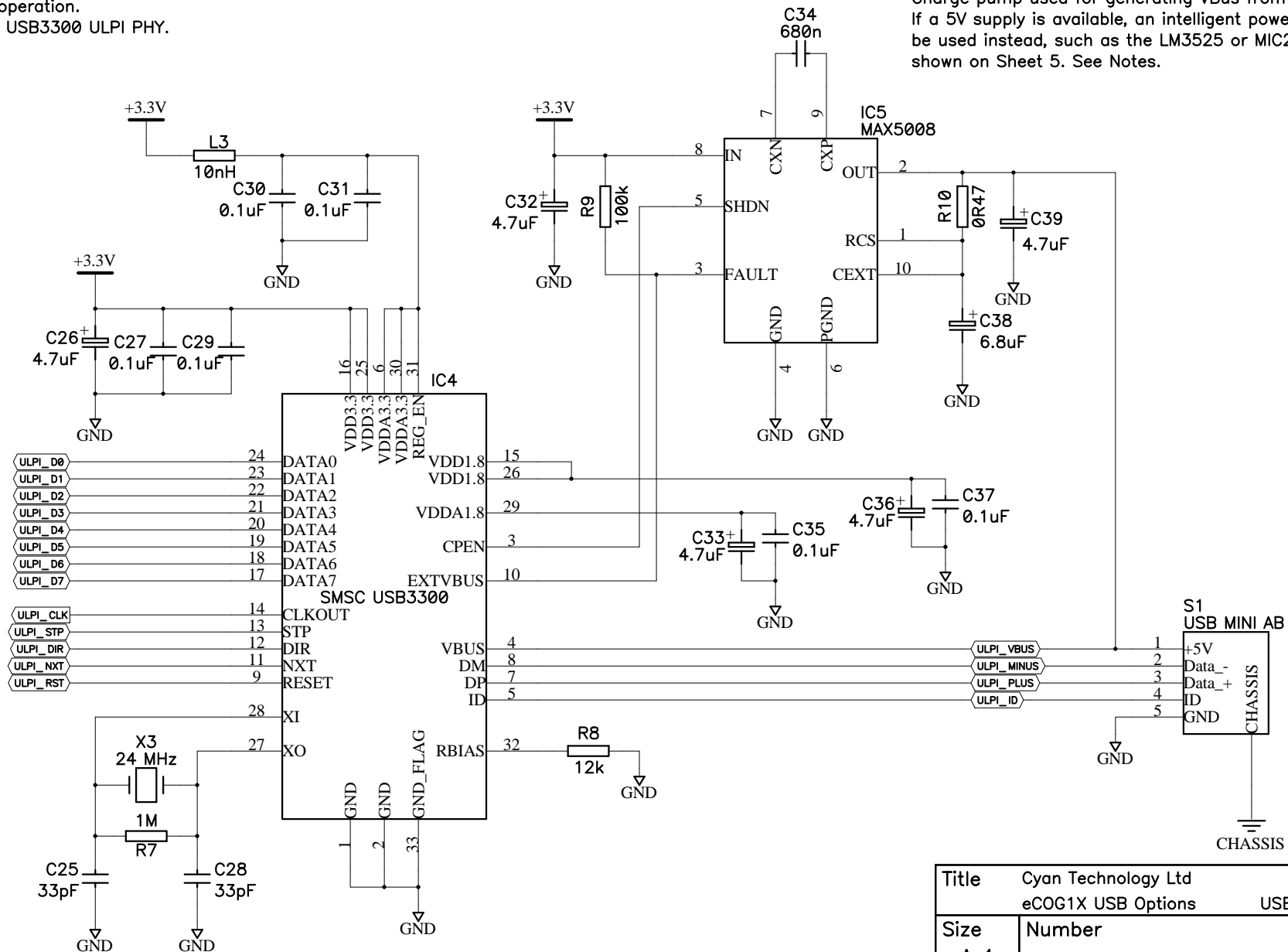
eCOG1X and support components, crystals and filters.
 Power supply regulators and decoupling.
 eICE debug connection.



Title		Cyan Technology Ltd
Size		Number
Date		22/01/2007
Filename		eCOG1X_USB.sch
Sheet 1		of 5
eCOG1X USB Options		eCOG1X
Rev		1.0
Drawn by		ADC

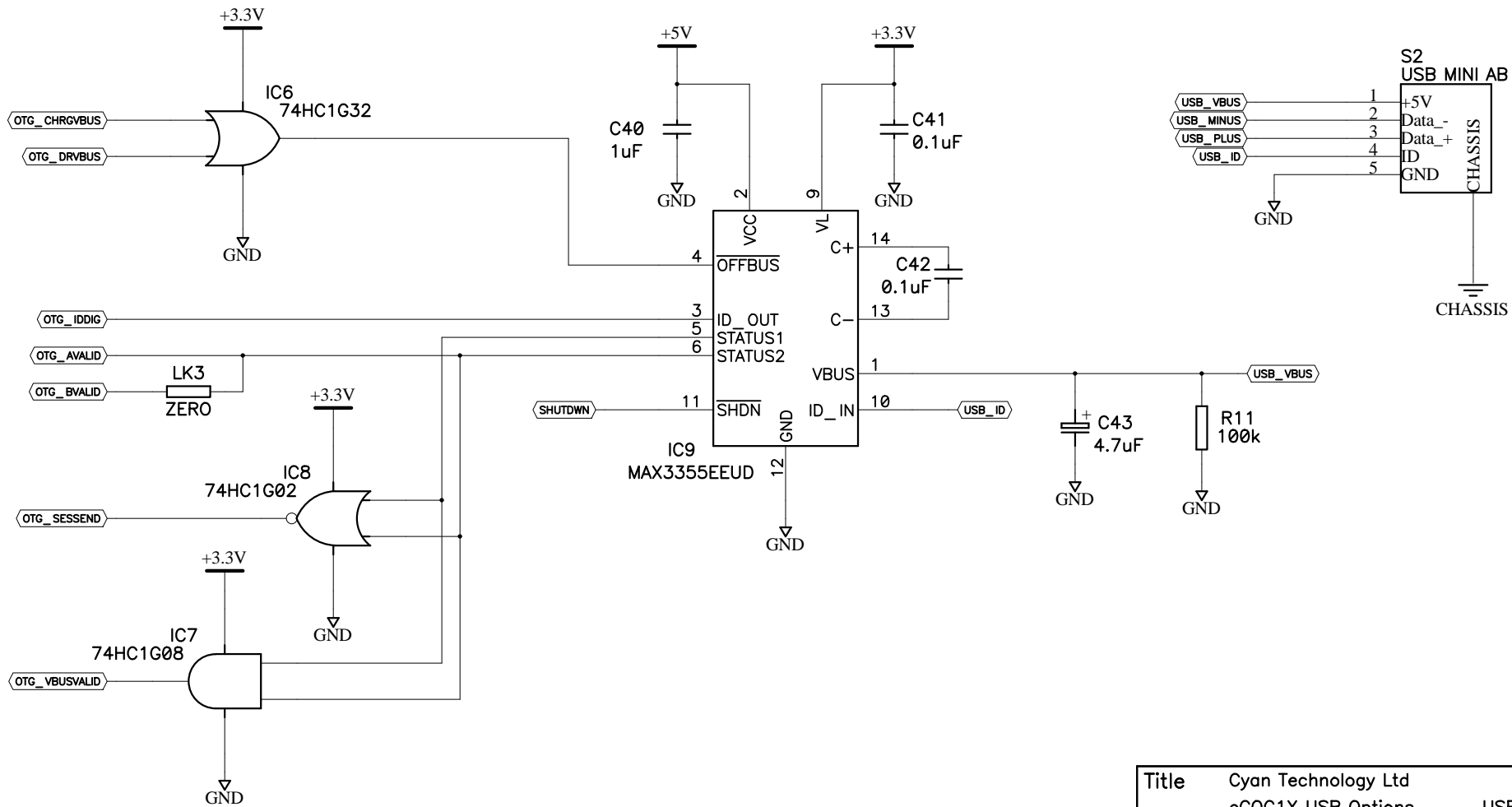
USB for high-speed operation.
Connections to SMSC USB3300 ULPI PHY.

Charge pump used for generating VBus from 3.3V Supply.
If a 5V supply is available, an intelligent power switch may be used instead, such as the LM3525 or MIC2025 as shown on Sheet 5. See Notes.



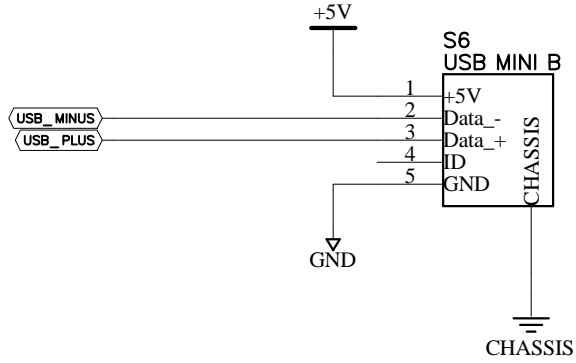
Title		Cyan Technology Ltd	
		eCOG1X USB Options	
		USB ULPI	
Size	Number	Rev	
A4		1.0	
Date	22/01/2007	Drawn by	ADC
Filename	eCOG1X_USB.sch	Sheet 2	of 5

USB internal PHY with OTG
 Connections to MAX3355 charge pump and comparators

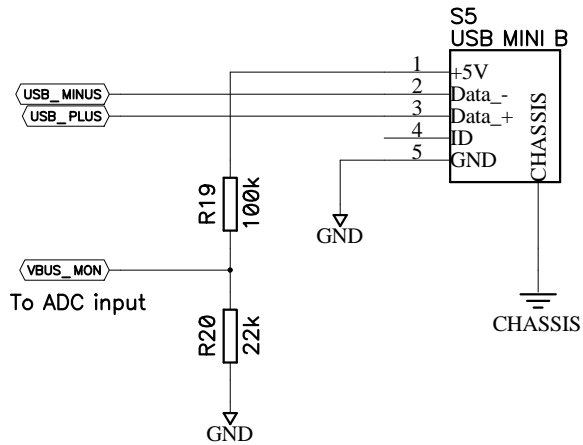


Title		Cyan Technology Ltd	
		eCOG1X USB Options	
		USB MAX	
Size	Number		Rev
A4			1.0
Date	22/01/2007	Drawn by	ADC
Filename	eCOG1X_USB.sch	Sheet 3	of 5

Bus Powered USB Peripheral.
No monitoring of the VBUS or ID pin required.

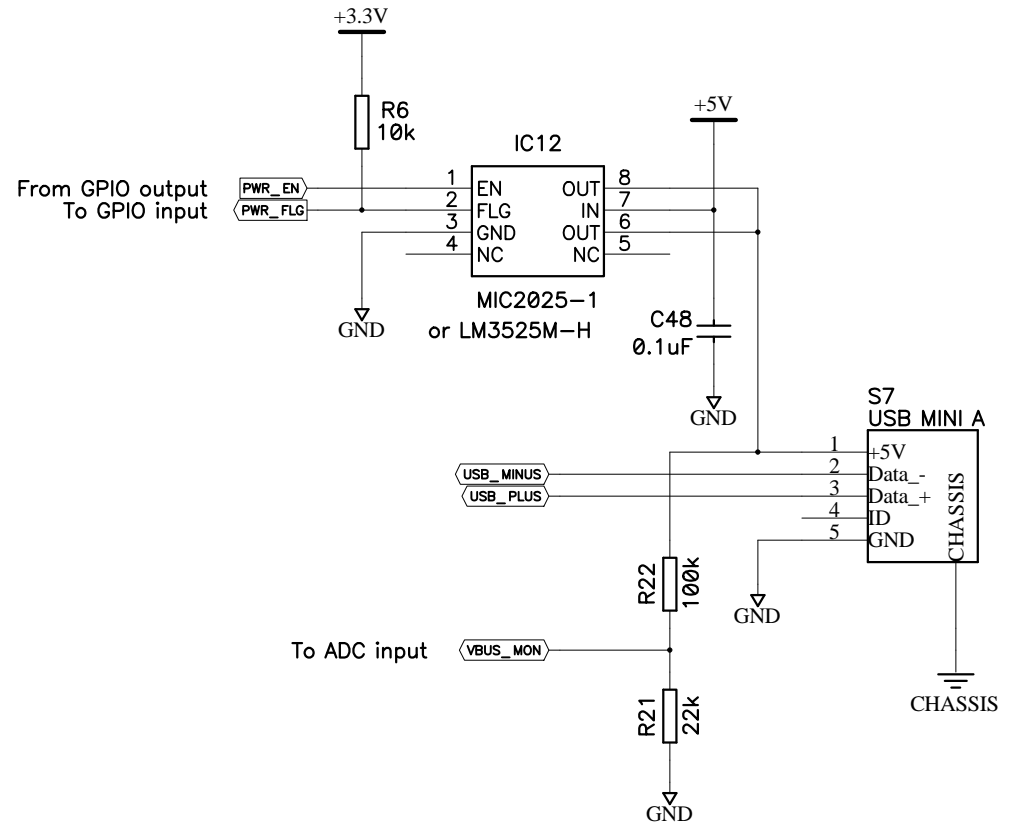


Self powered USB Peripheral.
Note that VBus must be monitored with an ADC input so that the disconnection of the USB can be detected. See Notes.



USB Host.
The host must supply the 5V to VBus. See Notes.

The National Semiconductor LM3525M-H and the Micrel MIC2025-1 power switch devices are pin-compatible alternatives with active-high Enable input. For an active-low Enable input, use the LM3525M-L or the MIC2025-2.



Title	Cyan Technology Ltd eCOG1X USB Options		USB MIN
Size	Number	Rev	
A4		1.0	
Date	22/01/2007	Drawn by	ADC
Filename	eCOG1X_USB.sch	Sheet 5	of 5