NOTES & ERRATA FOR PROJECTS PUBLISHED IN
SILICON CHIP (2011)

Please note: errata apply primarily to the print edition of SILICON CHIP as online issues are normally changed when an error is identified. However some errata may still apply to the online edition; check carefully before making any changes to a project.

USB Data Logger, December 2010-February 2011: (1) In order to support baud rates greater than 57.6kbps (ie, up to 0.5Mbps), change the two 100nF monolithic capacitors on the A0/D4 and A1/D5 inputs to 10nF. (01/11)

(2) To improve filtering of the +3.3V supply rail, the 22uF tantalum capacitor on the output of REG1 should be changed to a 220uF 10V low-ESR electrolytic (Jaycar RE-6300). This applies to both the circuit diagram in Pt.1 (December 2010, page 38) and to the overlay diagram in Pt.2 (January 2011, page 35). Note that there are two 22uF tantalum capacitors shown adjacent to REG1 on the overlay. The capacitor on the left is the one to change. The parts list in Pt.1 should be amended accordingly. (02/11)

(3) The specified inductor has been found to be not suitable for the frequencies at which the regulator operates. This can cause excessive current to be drawn at start-up and with low battery voltages. As a result, it should be changed to a 47uH high frequency ferrite choke (Jaycar LF-1100) which fits in its place. Also, a new version of the firmware is now available (v9.92) which, in combination with the new inductor, reduces the current drawn at start-up as well as fixing some other bugs. (04/11)

(4) Revised software reduces start-up power consumption and squashes a few bugs - see May 2011 issue. (05/11)

(5) The Jaycar PS0024 memory card socket used in this project has been discontinued and is no longer available. There is no equivalent so we have updated the PCBs to suit the Altronics P5722 memory card socket. Note that this socket has a metal shield so if the PCB does not have a solder mask, it will be necessary to place a thin plastic insulator under the socket. We have not tested it but the Amphenol 10100708 socket appears to have the same footprint. (01/12)

Hearing Loop Signal Conditioner, January 2011: IC4 should be an SA571 compandor chip, not an SAA571 as shown on the circuit, overlay and parts list. (01/12)

LED Dazzler, February 2011: The parts list and circuit diagram show two 22 ohms resistors but the PCB overlay has these as 10 ohms. 10 ohms is correct although 22 ohms will also work. (04/11)

The Microchip PIC32, March 2011: On page 21, line 2 of the program listing is incorrect, it should read:
#pragma config FNOSC=FRCPLL, FPLLIDIV=DIV_2, FPLLMUL=MUL_20, FPLLODIV=DIV_4
(06/11)

USB Stereo Recording/Playback Interface, June 2011: Ideally the XLR connectors for the microphone inputs should be female, in line with the usual convention. Female XLR connectors can be fitted to the front panel and the connections between pins 3 & 1 of each connector swapped over between the connector's rear lugs and the pads on the PCB – instead of passing straight down. This can be done quite easily if short lengths of insulated hook-up wire are used to make these connections, thereby ensuring that there will be no accidental shorts. (07/11)

Surf Sound Synthesiser, Circuit Notebook, July 2011: The circuit on page 87 should show the 680k resistor connected to pin 13 of IC1d rather than pin 14. (08/11)

Australia Hears! Feature, July 2011: "Australia Hears" have changed their name to "Blamey & Saunders Hearing" www.blameysaunders.com.au

Ultra-LD Mk.3 200W Amplifier Module, Pt.2, August 2011: The Dynamic Headroom specification was calculated incorrectly. It should be 1dB for 8-ohm loads and 1.3dB for 4-ohm loads. The Music Power and Slew Rate figures are correct. (06/12)

Loudspeaker Protector, October 2011: Article refers to a 70°C thermal cut-out from Jaycar, Cat. ST3831. This is incorrect, the correct catalog number is ST3833. (03/16)

Quizzical, October 2011: (1) In the specifications panel on page 18 it states that the Quizzical can handle SD cards up to 2GB. While correct at the time, Tenda Electronics have advised that the latest TDB830 MP3 modules will now handle SD cards up to 8GB. (12/11)

(2) The Jaycar PS0024 memory card socket used in this project has been discontinued and is no longer available. There is no equivalent so we have updated the PCBs to suit the Altronics P5722 memory card socket. Note that this socket has a metal shield so if the PCB does not have a solder mask, it will be necessary to place a thin plastic insulator under the socket. We have not tested it but the Amphenol 10100708 socket appears to have the same footprint. (01/12)

USB MIDIMate , October 2011: The 18-pin IC socket specified in the parts list should be a 20-pin IC socket. (06/12)

G-Force Meter, November 2011: The overlay diagram (Fig.2) incorrectly shows IC2 as a PIC18LF13K22. It should be a PIC18LF14K22, as on the circuit diagram. (01/12)

Digital Audio Delay, December 2011: The overlay diagram (Fig.6) is missing a copper fill under TX1, RX1, S1 and CON2, connecting the ground pins together. The PDF file on the SILICON CHIP website and the files provided to kitset makers do not have this problem. (01/12)