PW USB Radio Interface Article

In March 2012 Practical Wireless published the article for my original USB radio interface project.

Unfortunately due to an error on my part an error crept in on the PCB design which is corrected below.

Due to editorial pressures some of the photographs in the article were produced at much smaller than ideal and I have reproduced these on here for your assistance.

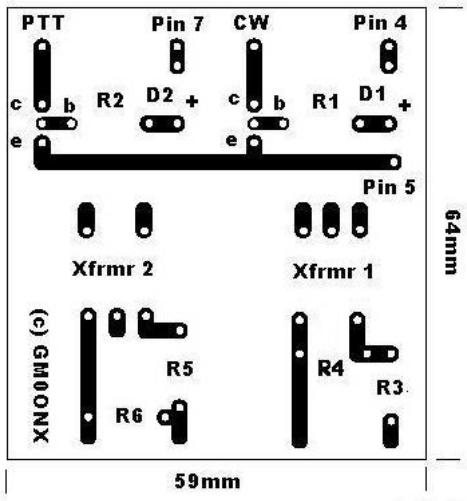
You can download a copy of the PW article by clicking on the icon below. The PCB layout has been corrected in the article. Thanks again to Practical Wireless for permission to reproduce the article here:-

Click above

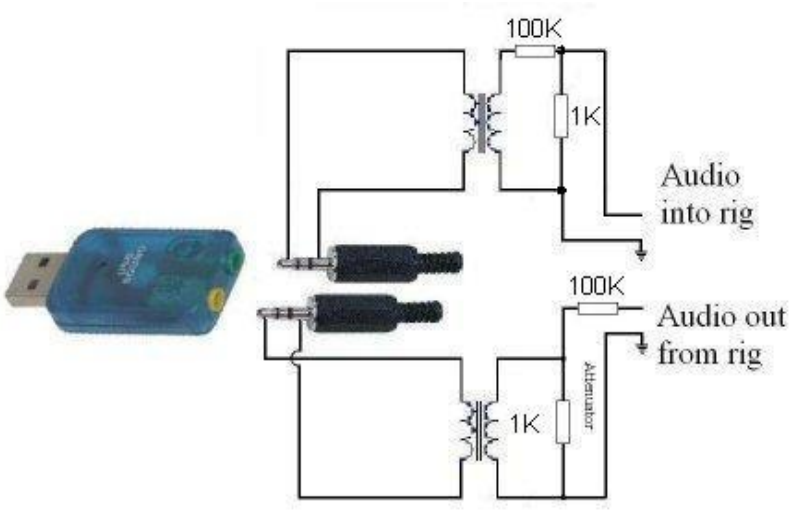
If you require and further information please do not hesitate to contact me by email.

email me:- len@gm0onx.co.uk

Corrected PCB layout.

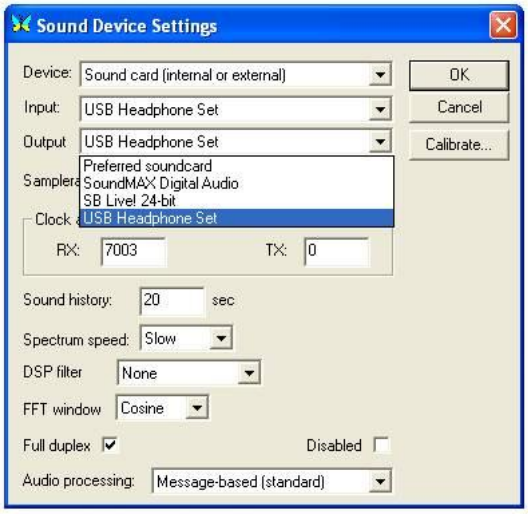


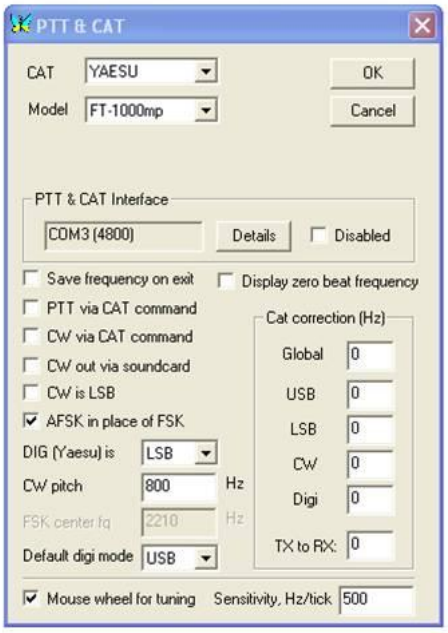
To down load this as a JPEG Click here.



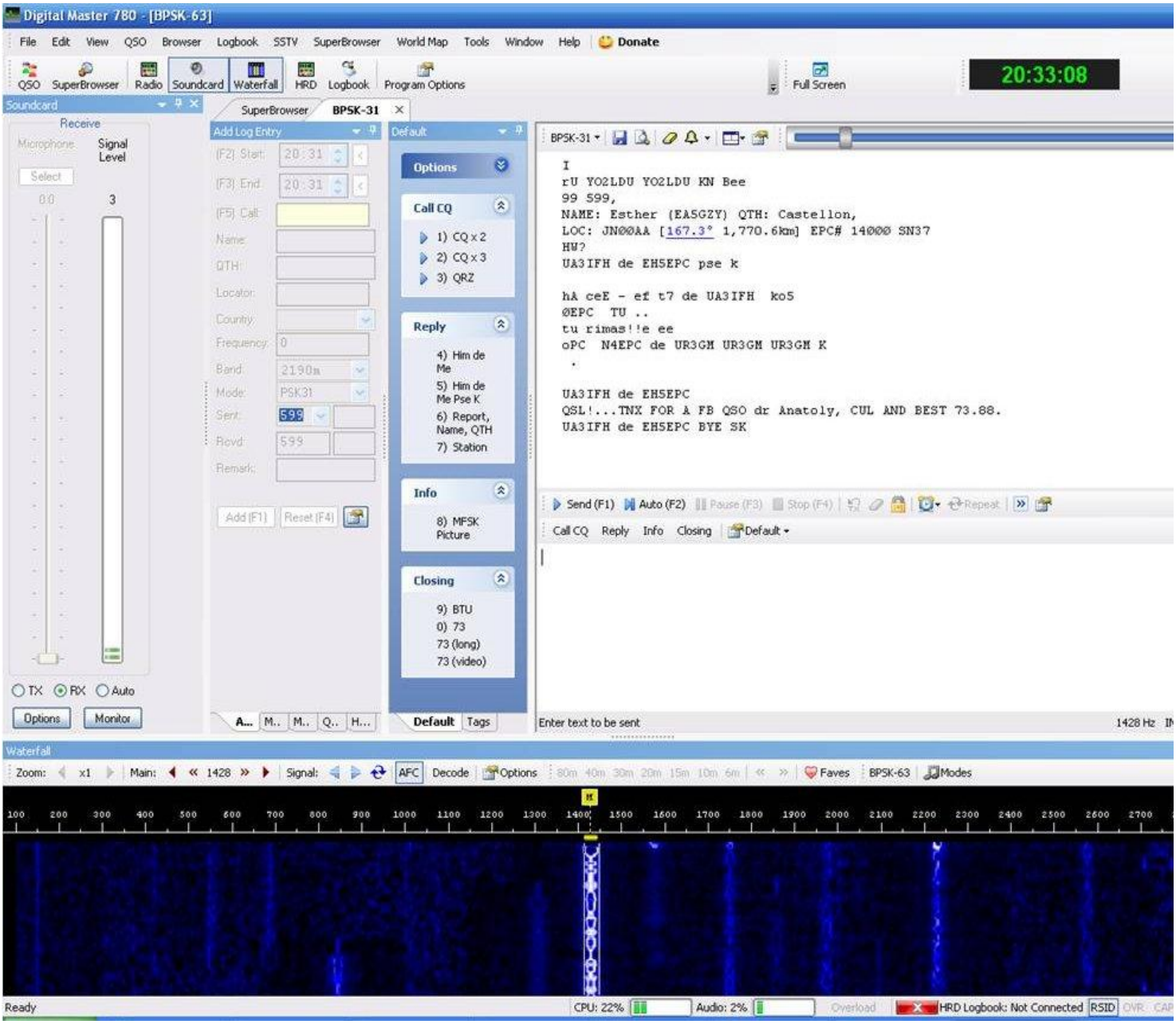
Isolation transformer circuit and isolation circuit.

If audio levels are too low replace 1k with higher value or replace 100K with a link and omit 1K


Sound Device Settings
Device: Sound card (internal or external)
Input: USB Headphone Set
Output: USB Headphone Set
Preferred soundcard
SoundMAX Digital Audio
SB Live! 24-bit
USB Headphone Set
OK
Cancel
Calibrate...
RX: 7003
TX: 0
Sound history: 20 sec
Spectrum speed: Slow
DSP filter: None
FFT window: Cosine
Full duplex
Disabled
Audio processing: Message-based (standard)


PTT & CAT
CAT: YAESU
Model: FT-1000mp
OK
Cancel
PTT & CAT Interface
COM3 (4800)
Details
Disabled
Save frequency on exit
Display zero beat frequency
PTT via CAT command
CW via CAT command
CW out via soundcard
CW is LSB
AFSK in place of FSK
DIG (Yaesu) is: LSB
CW pitch: 800 Hz
FSK center fq: 2210 Hz
Default digi mode: USB
Cat correction (Hz)
Global: 0
USB: 0
LSB: 0
CW: 0
Digi: 0
TX to RX: 0
Mouse wheel for tuning
Sensitivity, Hz/tick: 500

Serial port
Port: COM3 *
Baud rate: 4800
Data bits: 8
Parity: None
Stop bits: 2
RTS: PTT
DTR: CW


Digital Master 780 - [BPSK-63]
File Edit View QSO Browser Logbook SSTV SuperBrowser World Map Tools Window Help Donate
QSO SuperBrowser Radio Soundcard Waterfall HRD Logbook Program Options
Full Screen
20:33:08
Soundcard
Receive
Microphone
Signal Level
Select
TX RX Auto
Options Monitor
SuperBrowser BPSK-31
Add Log Entry
(F2) Start: 20:31
(F3) End: 20:31
(F5) Call:
Name:
QTH:
Locator:
Country:
Frequency: 0
Band: 2190m
Mode: PSK31
Sent: 599
Rcvd: 599
Remark:
Add (F1) Reset (F4)
Default
Options
Call CQ
1) CQ x 2
2) CQ x 3
3) QRZ
Reply
4) Him de Me
5) Him de Me Pse K
6) Report, Name, QTH
7) Station
Info
8) MFSK Picture
Closing
9) BTU
0) 73
73 (long)
73 (video)
Default Tags
BPSK-31
I
rU YO2LDU YO2LDU KN Bee
99 599,
NAME: Esther (EA5GZY) QTH: Castellon,
LOC: JN00AA [167.3° 1,770.6km] EPC# 14000 SN37
HW?
UA3IFH de EH5EPC pse k
hA ceE - ef t7 de UA3IFH ko5
0EPC TU ..
tu rimas!!e ee
oPC N4EPC de UR3GM UR3GM UR3GM K
UA3IFH de EH5EPC
QSL!...TNX FOR A FB QSO dr Anatoly, CUL AND BEST 73.88.
UA3IFH de EH5EPC BYE SK
Send (F1) Auto (F2) Pause (F3) Stop (F4) Repeat
Call CQ Reply Info Closing Default
Enter text to be sent
1428 Hz
Waterfall
Zoom: x1 Main: 1428 Signal: AFC Decode Options Faves BPSK-63 Modes
Ready
CPU: 22% Audio: 2% Overload HRD Logbook: Not Connected RSID

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