Service Note		
Product	Description:	Service note no.
PowerCore Firewire/ Compact/X8	**Changing Xtal + Xtal loads**	**Sno-T090**

Reason for note:

We have found problems with the current Xtal and the surrounding load capacitors connected to the 1394 PHY device on PoCoFW mainboard (P17100-G). The current Xtal loads the driver inside the PHY to hard possibly resulting in "dead" product, firewire disconnects or sample rate problems because the Xtal stops oscillating or oscillates at a wrong rate.

Actions:

The following changes needs to be made:

C97 must be changed:
From: E25100821 (on variants P17100-GA and p17100-GB) and
E25100721 (on variants P17100-GC and p17100-GD)
To: 7E25102611 Cap; C0G; 15p; 50V; 5%; 0603; SMD; Ceramic Chip Capacitor (all variants)

C108 must be changed:
From: E25100821 (on variants P17100-GA and p17100-GB) and
E25100721 (on variants P17100-GC and p17100-GD)
To: 7E25102611 Cap; C0G; 15p; 50V; 5%; 0603; SMD; Ceramic Chip Capacitor (all variants)

X1 must be changed:
From: E33000101 XTAL; FUNDAMENTAL; 24.5760MHz; 30pF; 30PPM; XTAL/HC49; LEAD; Crystal
To: 7E33001011 XTAL; FUNDAMENTAL; 24.5760MHz; 12pF; 30PPM; XTAL/HC49; LEAD; Crystal

It is essential that all the above changes are introduced at the same time - otherwise we will experience frequency deviations.

You can order the mentioned parts using our Sparepart E-mail address:

Sparepart@tcelectronic.com

IMPORTANT:

This replacement should only be carried out by skilled technicians.