

Service Note		
Product	Description:	Service note no.
Studio Konnekt 48	Changing Xtal + Xtal loads	Sno- T087

Reason for note:

We have found problems with the current Xtal and the surrounding load capacitors connected to the 1394 PHY device on EIO2 mainboard (P19321-C). The current Xtal loads the driver inside the PHY to hard possibly resulting in "dead" product, UI problems, firewire disconnects or sample rate problems because the Xtal stops oscillating or oscillates at a wrong rate. The problems has been seen both in production and at the customers.

Actions:

The following changes needs to be made:

C557 must be changed:

From: E25300501 Cap; C0G; 47p; 50V; 5%; 0805; SMD; Ceramic Chip Capacitor

To: 7E25305001 Cap; C0G; 12p; 50V; 5%; 0805; SMD; Ceramic Chip Capacitor

C558 must be changed:

From: E25300501 Cap; C0G; 47p; 50V; 5%; 0805; SMD; Ceramic Chip Capacitor

To: 7E25305001 Cap; C0G; 12p; 50V; 5%; 0805; SMD; Ceramic Chip Capacitor

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.