	Service Note	
Product	Description:	Service note no.
KONNEKT 8/24/LIVE	**Changing Xtal + Xtal loads** **P19331-E**	**Sno-T091**

Reason for note:

We have found problems with the current Xtal and the surrounding load capacitors connected to the 1394 PHY device on EIO3 mainboard (P19331-E). 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:

C86 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

C87 must be changed:
From: E25300501   Cap; C0G; 47p; 50V; 5%; 0805; SMD; Ceramic Chip Capacitor
To: 7E25310211   Cap; C0G; 15p; 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.