

<b>Service Note</b>		
Product	Description:	Service note no.
<b>KONNEKT 8/24/LIVE</b>	<b>Changing Xtal + Xtal loads</b>	<b>Sno- T089</b>

**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: 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](mailto:Sparepart@tcelectronic.com)

**IMPORTANT:**

This replacement should only be carried out by skilled technicians.