

<b>Service Note</b>		
Product	Description:	Service note no.
<b>Konnekt X32</b>	<b>Changing Xtal + Xtal loads</b>	<b>Sno- T086</b>

**Reason for note:**

We have found problems with the current Xtal and the surrounding load capacitors connected to the 1394 PHY device on JFK mainboard (P16601-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.

**Actions:**

C213 must be changed:

From: 251 Cap; COG; 47p; 50V; 10%; 0603; SMD; Ceramic Chip Capacitor

To: 7E25102611 Cap; COG; 15p; 50V; 5%; 0603; SMD; Ceramic Chip Capacitor

C212 must be changed:

From: 251 Cap; COG; 56p; 50V; 10%; 0603; SMD; Ceramic Chip Capacitor

To: 7E25102611 Cap; COG; 15p; 50V; 5%; 0603; SMD; Ceramic Chip Capacitor

X1 must be changed:

From: 331012511 XTAL; FUNDAMENTAL; 24.5760MHz; 30pF; 30PPM; XTAL/HC49U; LEAD;  
Low Profile Crystal

To: 7E33001011 XTAL; FUNDAMENTAL; 24.5760MHz; 12pF; 30PPM; XTAL/HC49; LEAD;  
Crystal

It is essential that 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.