


## Avolites LTD Engineering Change Notice

ECN title	Titan Net Processor Impedance Matched Ethernet		
ECN Number	ECN-207		
Related Product(s)	All Titan Net Processors before TNP-0069		
Date / Author	27/06/2016	Grzegorz Ksiazka	
Reasons for ECN	Ethernet link quality can degrade due to poor signal integrity		
Parts required	Assembled TNPE 7332A snapoff board, four cable-ties 04-03-0039		
Tools required	PZ2 screwdriver, PZ1 screwdriver, 5.5 mm socket/nut driver, side cutters		
Estimated time	15 Minutes		

### Background:

Titan Net Processor originally shipped without impedance matched tracks on the etherCon output board. This can lead to link quality issues, especially evident on Gigabit networks when using TitanNet.

#### 1. Titan Net Processor opening

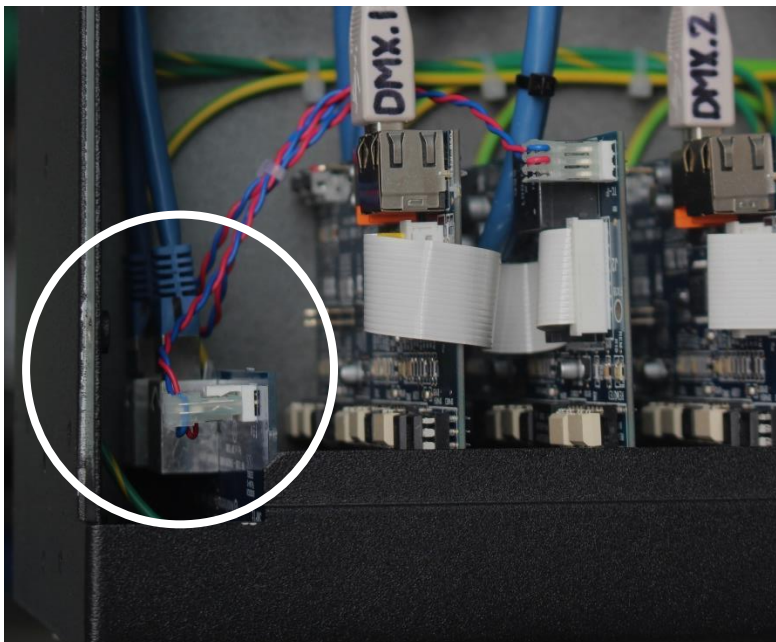
Unscrew 3x M4x8 screws with cap washers on each side of the lid and retain

Unscrew 2x M3 CSK screws on top of the lid and retain

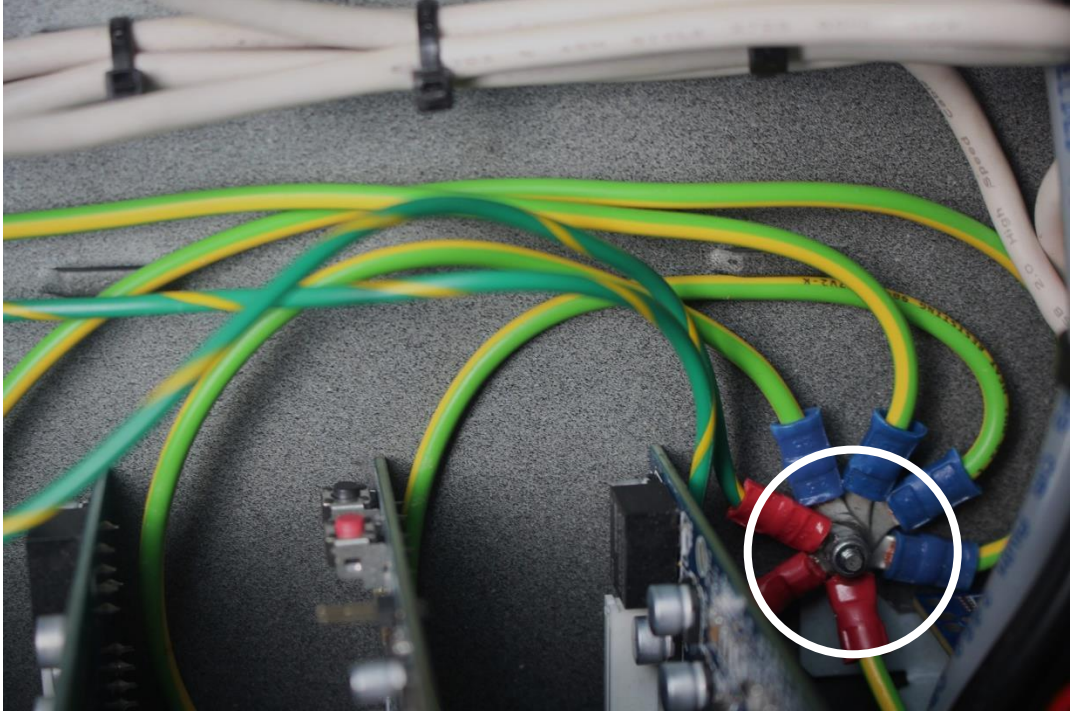
Take the lid off and unplug lid earth wire



#### 2. Unplug the two RJ45 connectors and 3way mascon connector going into the TNP 7330 Ethercon board.



3. Remove the M3 nut holding the earth wires in place, next to the DMX boards. This may be easier if the nearby RJ45 and DVI cables are temporarily removed.



4. Remove the 6 screws holding two ethernet sockets and XLR SMPTE connector.

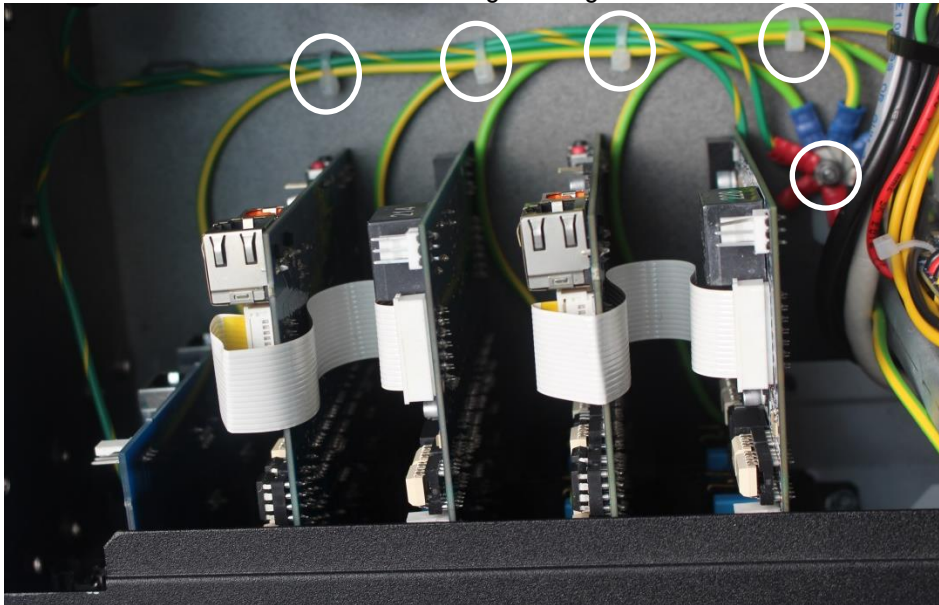


5. Withdraw the TNP 7330 Ethercon board.
6. Fit the new TNP EtherCon TNPE 7332A board using the 6 screws previously removed.

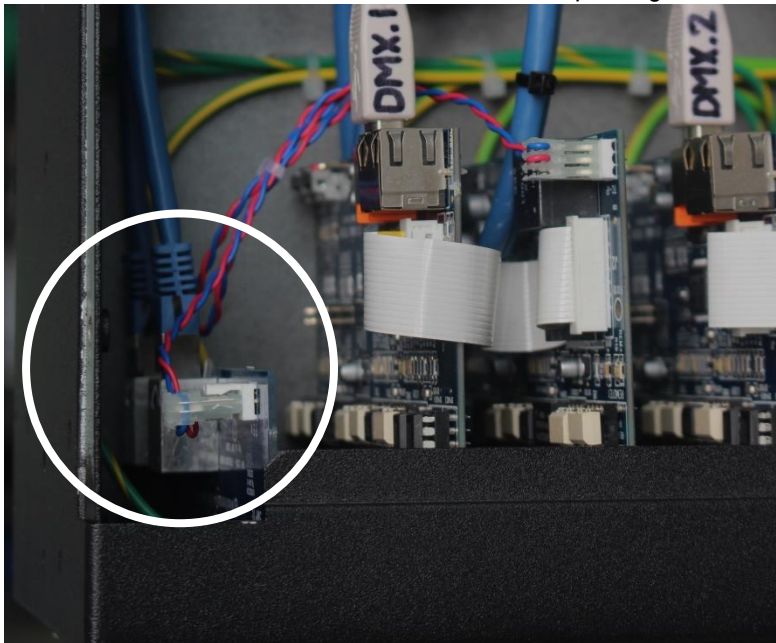


7. Run the earth wire on the bottom of the shell along the lance bridges with the other earth looms. Put crimp over the earth stud and refit the M3 nut, ensuring all other earth wires are in place, and in contact with one another.

Cable-tie the earth loom to the lance bridges using four cable-ties



8. Plug the two RJ45 connectors and 3way mascon connector going into the TNP 7330 Ethercon board back in, such that the numbers match the printing on the front panel (Ethernet 1 on top).



9. Titan Net Processor closing

Plug lid earth wire back in, replace the lid and fix using the 8 screws previously removed (3x M4x8 screws with cap washers on each side of the lid and 2x M3 CSK screws on top of the lid)



This concludes the ECN.