



10-014
15 July 2010

CPU AND MOTHERBOARD REPLACEMENT W/EXISTING ETHERNET

I. PURPOSE:

To give instructions on how to replace the Acrosser CPU and Main board in an instrument that has existing Ethernet.

II. TOOLS:

Phillips Screwdriver

III. PARTS:

KIT000320 KIT, RETROFIT, ICOP CPU, MB, W/ETHERNET



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

IV. INSTALLATION PROCEDURE

1. Record all of your IP Settings located in the INET menu and your FACTORY OPTION bit located in the VARS menu using the 929 password.
2. Turn the instrument off and unplug the power cord.

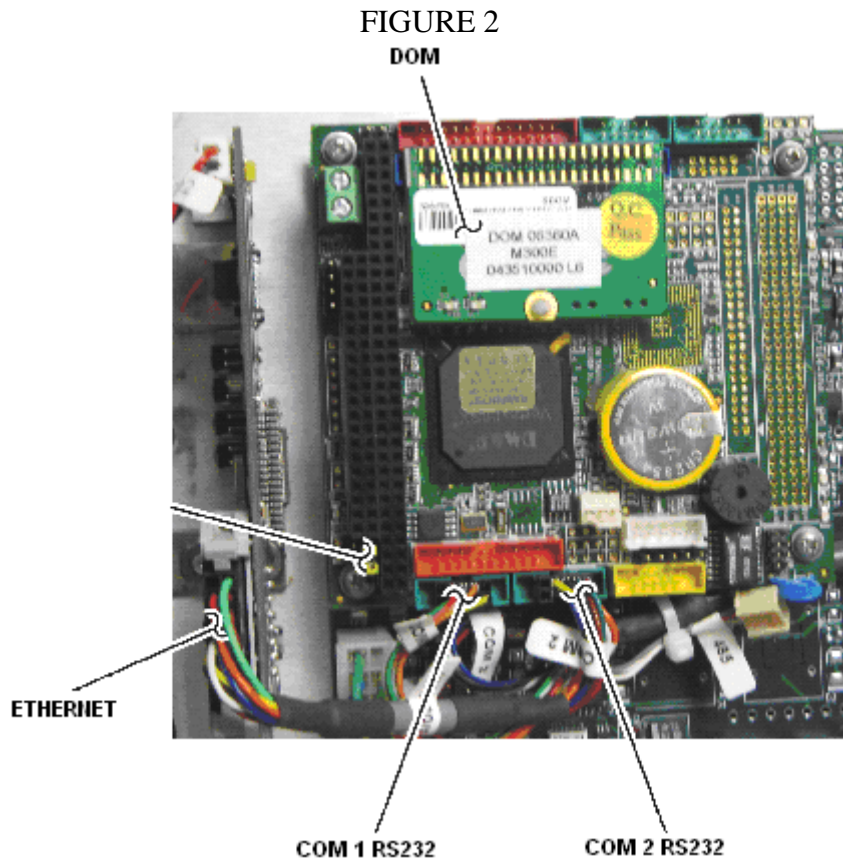
3. Remove the cover of the instrument.
4. On the rear panel remove all of the connectors attached to the motherboard.
5. Remove the existing cable that connects the Ethernet to the CPU. This cable will no longer be used.
6. Remove the 4 screws on the motherboard and the 4 screws on the CPU board and remove the CPU and motherboard from the instrument
7. Remove the new CPU and Main board from the KIT and attach the CPU to the main board if not already attached.
8. Ensure that the CPU is seated properly.
9. Remove the cable labeled 062490000 from the KIT (if not already attached) and attach the P12 connector to the motherboard at J12.
10. Attach the COM1 connector to the ICOP CPU at the COM1/RS232 location as shown in FIGURE 1.
11. The COM2 connector on the 062490000 cable is not used.
12. The RS485 Connector is not used on the CPU is not used.
13. Install the motherboard and CPU with the attached cable to the rear panel.
14. Install and tighten the screws that were removed in step 4.
15. Reconnect all of the electrical connectors that were attached to the main board.

FIGURE 1



16. Remove the 063060000 cable contained in the KIT and connect the 16 pin connector side to PL101 on the Ethernet board.

17. Locate COM 2 on the new ICOP CPU and attach the 10 pin connector from the 063060000 cable into the COM2 port of the CPU shown in FIGURE 2.
18. Once all of the connections have been made close the rear panel and install the cover.
19. Turn the instrument ON.
20. As this is a new CPU you will need to redo all of your calibrations (flow, pressure, analog output and Zero/Span)
21. You will also need to enable the Ethernet by going into the DIAG menu using the 929 password. Press NEXT until FACTORY OPTIONS. Press ENTER and then NEXT until ENABLE INTERNET.
22. Turn this ON by pressing the OFF button and then press ENTER.
23. Press EXIT back to the main menu.
24. Turn the instrument OFF for 10 seconds and then turn the instrument back ON.
25. Ensure that your network cable is disconnected. Go into the COM menu and wait for the INET button to appear. (This may take a couple minutes) Once it appears press INET and proceed to set up your IP settings recorded in step 1.



If you have any questions regarding this service note please contact a Teledyne API Customer Service Representative at api-customerservice@teledyne.com or (858)657-9800.