

## Test Procedure for the NCP1094GEVB Evaluation Board

## 1. Equipment required

- Power-over-Ethernet enabled switch (at for NCP1093/NCP1094)
- Electronic Load
- Power Supply

## 2. Test procedure

- 1. Connect the input connector to the PoE switch. The PGOOD led can briefly pulse, followed by the VPORTP led lighting up. VPORTP RTN should measure between 37V and 57V
- 2. Connect an electronic load to VPORTP RTN. Set the electronic load to constant current, with the current setting depending on the board type:

NCP1090, NCP1091, NCP1092: 230 mA NCP1093, NCP1094: 450 mA

The output voltage should remain constant, and the PGOOD led should remain on.

- 3. Connect a computer to the Ethernet output. Ping another computer connected to the switch.
- 4. Connect a power supply to the auxiliary input. Set the power supply to 24V
- 5. (NCP1093, NCP1094 only) Voltage between VPORTP RTN should be ~23V
- 6. (NCP1090, NCP1091, NCP1092 only) Disconnect the Ethernet cable. Voltage between VPORTP RTN should be  $^{\sim}23V$
- 7. Set the electronic load to 2A (or power supply maximum). The output voltage should remain above 20V

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