UART0 Comms to EPod — J10 / P10
- 1 RS232 Rx (from Tool Micro) → P5-2, Sht 3
- 2 RS232 Tx (to Tool Micro) → P5-3, Sht 3
- 3 RS232 Com (Tool Micro) → P5-1, Sht 3

External +24V High Power Input — J13 / P13
- 1 24V Ret (Vicor Maxi) → Micro J5, Sht 4
- 2 +24V (Vicor Maxi) → Micro J3, Sht 4

24V Switched Output — J3

Micro 24V Input — J2 / P2
- 1 +24V (Tool Micro) → P5-5, Sht 3
- 2 24V Ret (Tool Micro) → P5-4, Sht 3

Vicor Enable — J7 / P7
- 1 Vicor Enable + → J1-A1, Sht 4
- 2 Vicor Enable - → J1-A2, Sht 4

Highside Switch 3 — J16

12V Output — J6 / P6
- 1 +12V (O2 Pump) → C3-1, Sht 1
- 2 12V Ret (O2 Pump) → C3-2, Sht 1

Highside Switch 4 — J17

Ext 12V Input — J4 / P4
- 1 +12V (O2 Pump) → P5-18, Sht 3
- 2 12V Ret (O2 Pump) → P5-19, Sht 3

CON2

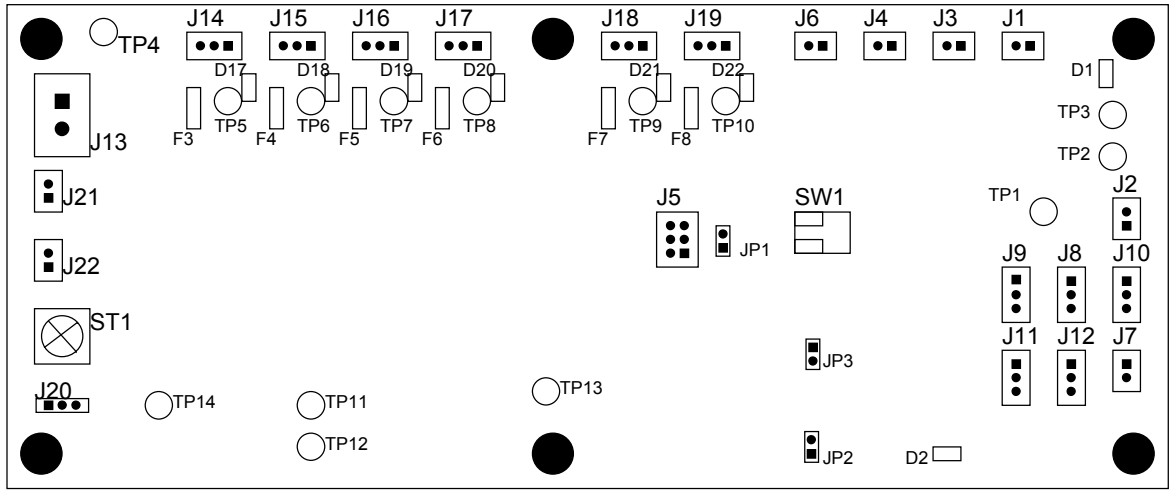
Highside Switch 1 — J14 / P14
- 1 24V Ret (HS Switch 1) → C4-1, Sht 1
- 2 +24V (HS Switch 1) → C4-2, Sht 1
- 3 Dim (HS Switch 1)

UART 1 — J8 / P8 50-57-9403
- 1 RS232 Tx (Uart 1, from micro)
- 2 RS232 Rx (Uart 1, to micro)
- 3 RS232 Com (Uart 1)

Highside Switch 2 — J15 / P15
- 1 24V Ret (Highside Switch 2) → C1-1, Sht 1
- 2 +24V (Highside Switch 2) → C1-2, Sht 1
- 3 Dim (Highside Switch 2)

UART 2 — J9 / P19 50-57-9403
- 1 RS232 Tx (Uart 2, from micro)
- 2 RS232 Rx (Uart 2, to micro)
- 3 RS232 Com (Uart 2)

Micro Board Connector Placement



J1: Ext Aux #1 Input Voltage
J2: Vehcile 24Vdc Input
J3: Aux Power #1
J4: Ext Aux #2 Input Voltage
J5: PIC Programming Input
J6: Aux Power #2
J7: Vicor Power Control
J8: Aux RS-232 #1
J9: Aux RS-232 #2
J10: Vehicle RS-232
J11: Vehcile RS-485 #1
J12: Vehcile RS-485 #2
J13: 24Vdc Vicor Input
J14: Highside Switch #1 Output
J15: Highside Switch #2 Output
J16: Highside Switch #3 Output
J17: Highside Switch #4 Output
J18: Highside Switch #5 Output
J19: Highside Switch #6 Output
J20: Jumper for GF Calibration
J21: Water Sensor #1
J22: Water Sensor #2
ST1: Seawater Reference Connection

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