

TeraDlynx™ Series Evaluation Board Documentation

The TeraDlynx™ series evaluation board TERADLYNX_SINGLE_EVAL_BOARD (OPT1)) Boards come with an assembled module and test components

1. Schematics

Component values are for reference only; refer to the data sheet for appropriate values and pictures in this document for preinstalled component

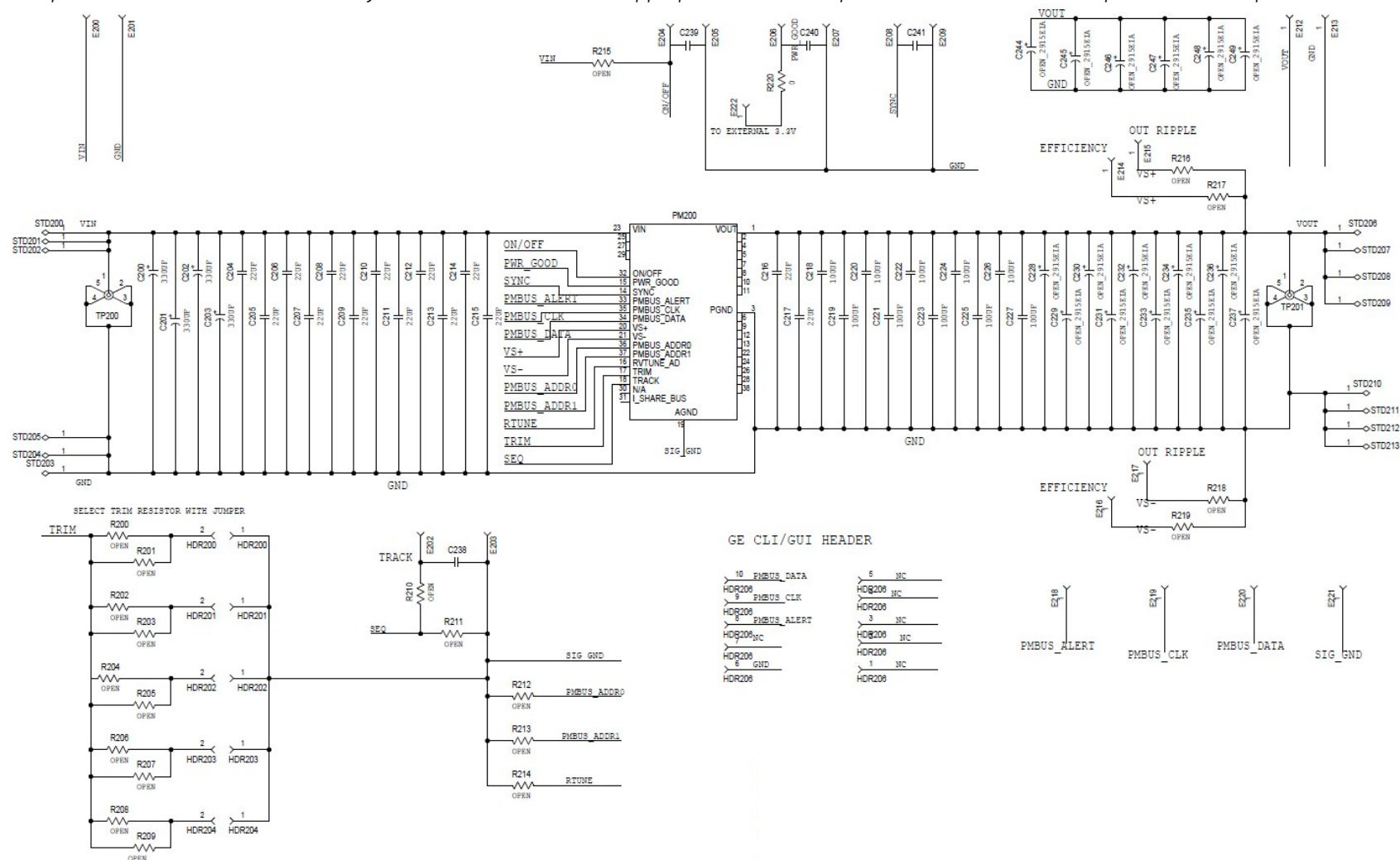


Figure 1a. Schematic of TeraDlynx Eval Board

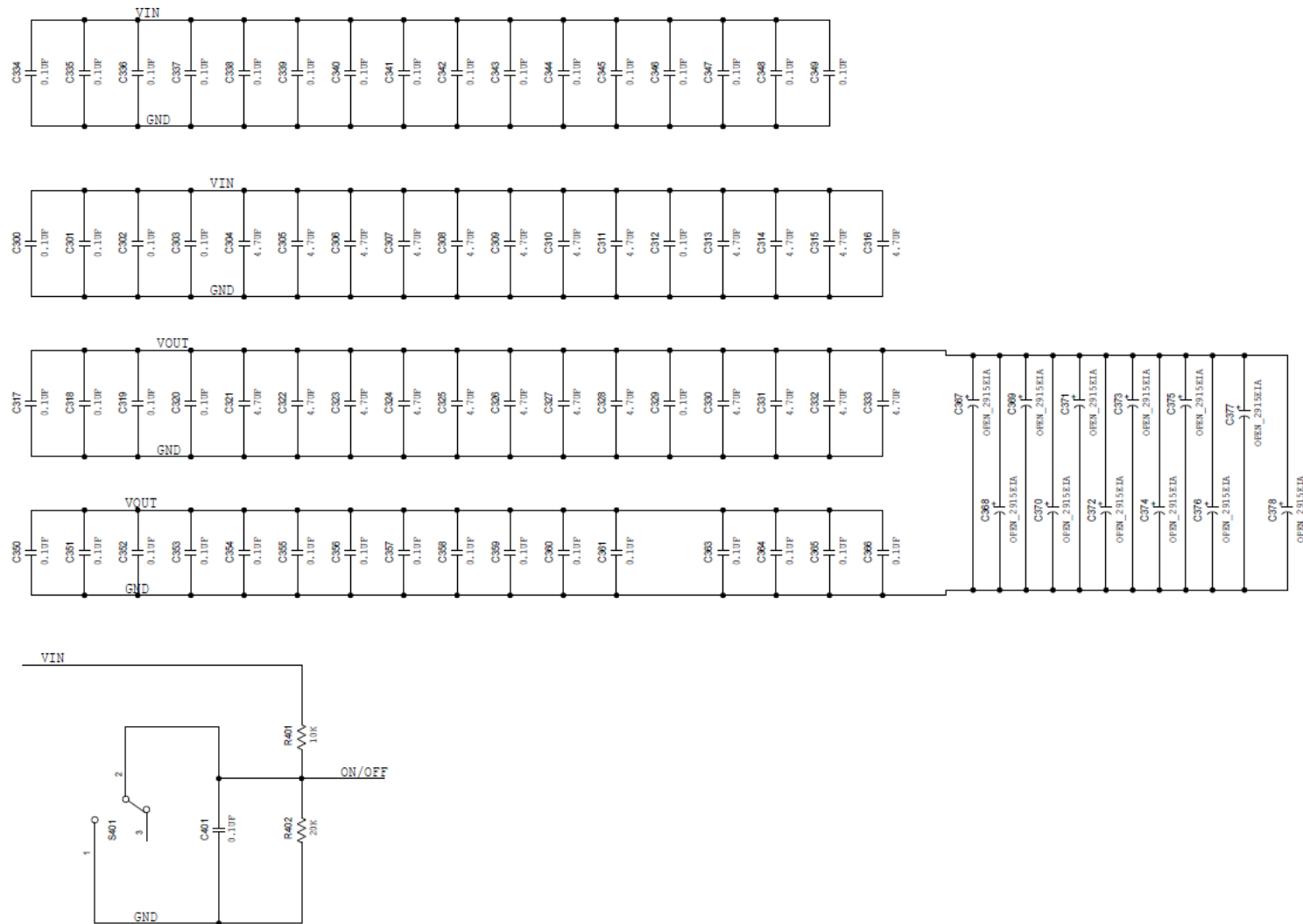
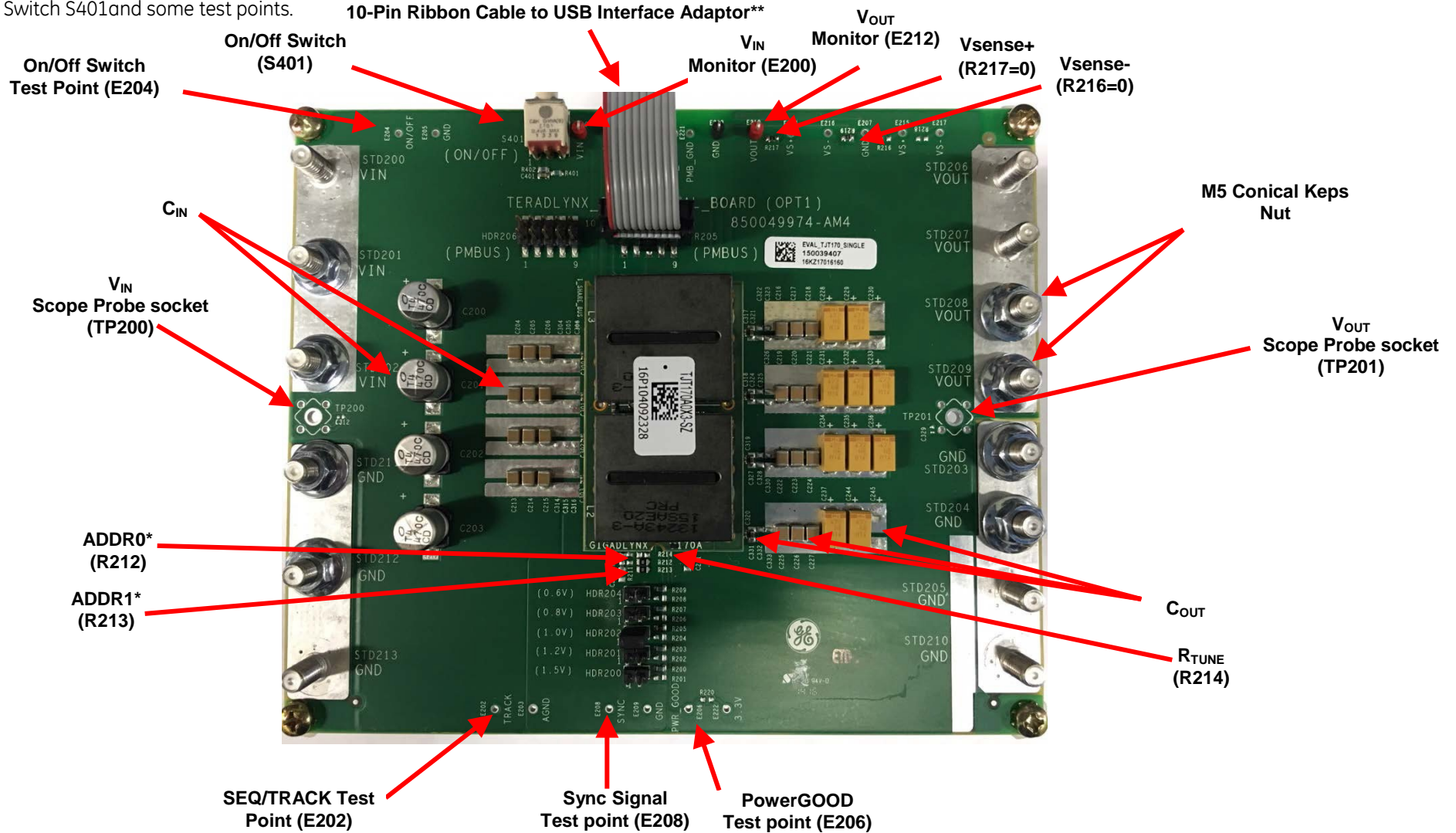


Figure 1b. Schematic of TeraDLynx Eval Board (contd.)

Pre-Installed components for the TeraDlynx™ include input filtering [C₃₀₀₋₃₀₃ (0.1uF,16V), C_{204 - 215}(22uF,16V), C₂₀₀₋₂₀₃(470uF,16V)], output filtering [C_{321,324,327,331}(1uF,16V), C₃₁₇₋₃₂₀(0.1uF,16V), C_{216 to 227} (47μF,6.3V), C_{228 to 237}(470uF, 6V)], R_{SENSE} resistors, R₂₁₇ & R₂₁₉ = 0 Ohms, Selectable Trim Resistors R₂₀₀₋₂₀₉, On/Off Switch S401 and some test points.





TeraDLynx™: Non-Isolated DC-DC Power Modules

Evaluation Board Guide

* The TeraDLynx module can be assigned a specific address by connecting resistors (R212) from the ADDR0 (lower order digit) pin to GND and resistors (R213) from the ADDR1 pin (higher order digit) to GND. The evaluation board comes with preinstalled 0 ohm ADDR1 resistor and ADDR0 resistor which corresponds to address 127. Please refer to the data sheet for additional details.

** HDR205/HDR206 allow the unit on the Eval board to interface (via 10 pin Ribbon Cable) with another unit on a different Eval Board and/or to GE “USB Interface Adapter” module in order for multiple modules to be controlled by the GUI. For further details, please refer to the GE document, “Digital Power Insight™ User Manual”.

Note1: The red wire on the ribbon cable should be aligned to Pin 1 (left side) of the HDR1 or HDR2 connectors as shown in Figure 2

Note2: Headers and Ribbon Cable Assembly details:

Part Description (HDR1 & HDR2): 10-Pin Dual Row Male Pin Header, SMT

e.g. FCI P/N: 95157-210 (Digi-Key P/N: 95157-210-ND) or Molex P/N: 0015910100

Part Description: IDC Ribbon Cable Assembly

e.g.: 3M P/N: M3DDA-1018J (Digi-Key P/N: M3DDA-1018J-ND) or Molex P/N: 111062-022



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