

GIGADLynx™ Series Evaluation Board Documentation

The GIGADLynx™ series evaluation board GIGADLYNX_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

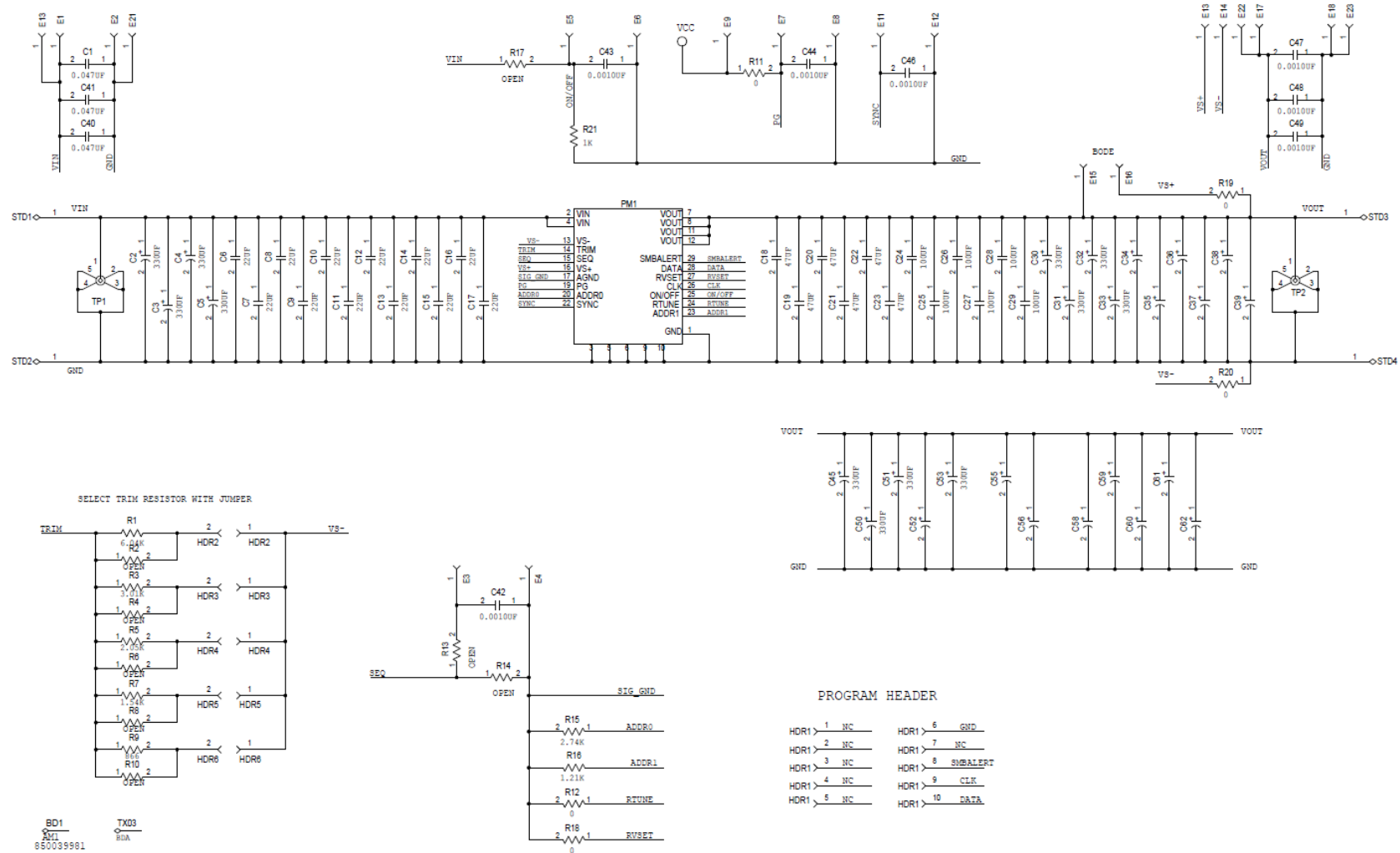


Figure 1a. Schematic of GIGADLynx Eval Board

GE GIGADLynx™: Non-Isolated DC-DC Power Modules

Pre-Installed components for the GIGADLynx™ include input filtering [C_{1,40,41}(0.047uF,16V), C₆₋₁₆(22uF,16V), C₂₋₅(330uF,16V)], output filtering [C₄₇₋₄₉(0.001uF,16V), C₁₈ to 23 (47uF,6.3V), C_{30,31,32,33,45,50,51,53}(330uF, 6.3V)], and selectable Trim Resistors R₁₋₁₀.

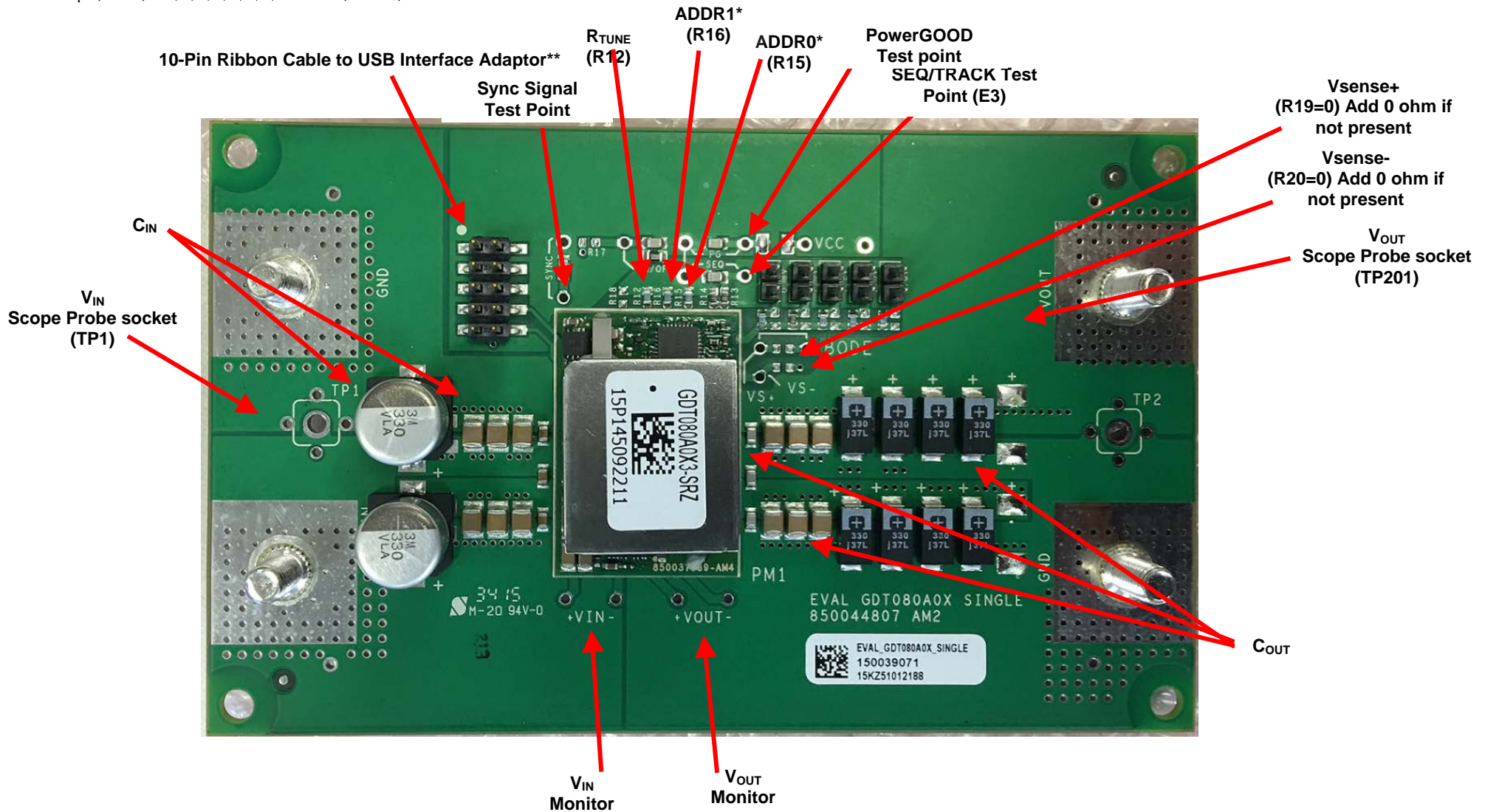


Figure 2. Power and Analog Signal Interface for the GDT080 Eval Board

* The GIGADLynx module can be assigned a specific address by connecting resistors (R15) from the ADDR0 (lower order digit) pin to GND and resistors (R16) from the ADDR1 pin (higher order digit) to GND. The evaluation board comes with preinstalled 1.21K-ohm ADDR1 resistor and 2.74K-ohm ADDR0 resistor. Please refer to the data sheet for additional details.

** HDR1 allow the unit on the Eval board to interface (via 10 pin Ribbon Cable) with a GE "USB Interface Adapter" module 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

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