APPLICATION NOTE



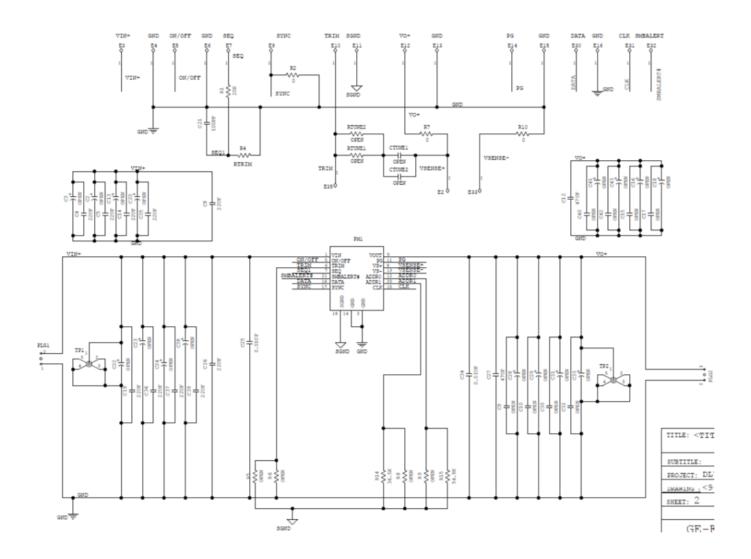
SlimLynx[™] Series Evaluation Board Documentation

The SlimLynx[™] series evaluation board (EVAL_PNDT012A0X3-SRZ) Boards come with an assembled module and test components

Schematics

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

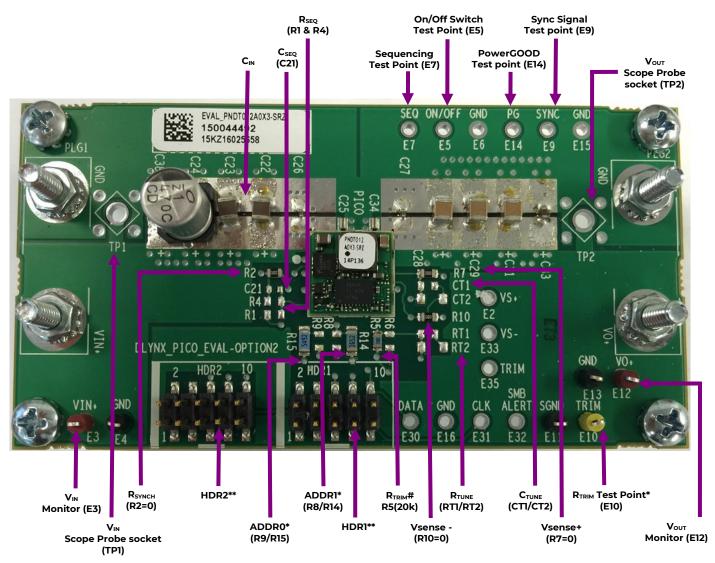
PICO SLIMLYNX MODULES (DLYNX_PICO_EVAL-OPTION2)





Pre-Installed components for the SlimLynxTM include input filtering [C₂₅ (0.047uF,16V), C₂₂(22uF,16V), C₂₃,(22uF,16V), C₂₆ (0.1uF,16V), C₃₈(470uF,16V)], output filtering [C₃₄(0.047uF,16V), C₂₇(0.1uF,16V) C₂₈, C₂₉, C₃₁ (47mF,6.3V), C33 (1uF,16V)], R_{SENSE} resistors, R₇ & R₁₀ = 0 Ohms, Trim R₅ = 20K, Address R15=54.9K, R14=36.5K and some test points.

10-Pin Ribbon Cable to USB Interface Adaptor or Second Eval Board



Power and Analog Signal Interface for the PNDT012 Eval Board

#Module can be trimmed either by soldering a different fixed resistors @ R5 or by attaching a potentiometer/resistor between test points E11 and E35.

- * The SlimLynx module can be assigned a specific address by connecting resistors (R9/R15) from the ADDR0 pin to GND and resistors (R8/R14) from the AADR1 pin to GND. The evaluation board comes with preinstalled ADDR1 resistor R14=36.5K and ADDR0 resistor, R15=54.9K as an example. These values correspond to Octal digits "3 4" equivalent to HEX number "1C" (equivalent to 28 decimal). Please refer to the data sheet for additional details.
- ** HDRI/HDR2 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 OmniOn "USB Interface Adapter" module in order for multiple modules to be controlled by the GUI. For further details, please refer to the OmniOn document, "Digital Power Insight™ User Manual".

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Notes:

Notel: The red wire on the ribbon cable should be aligned to Pin 1 (left side) of the HDR1 or HDR2 connectors.

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



Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
1.0	12/09/2022	Updated as per ABB template
1.1	11/09/2023	Updated as per OmniOn template



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