#### **APPLICATION NOTE**

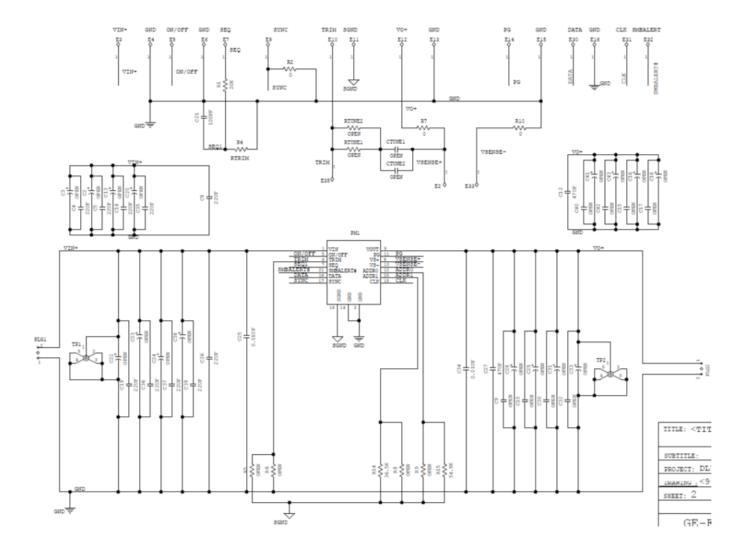
# SlimLynx<sup>™</sup> Series Evaluation Board Documentation

The SlimLynx<sup>TM</sup> 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

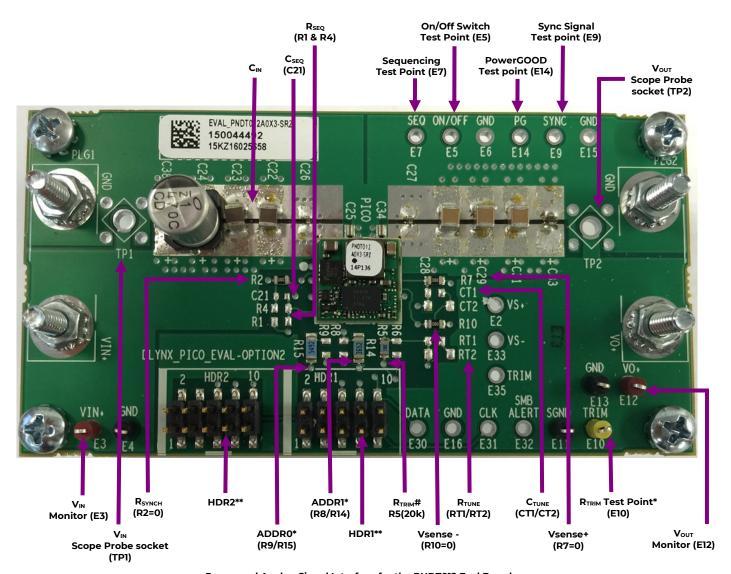
## PICO SLIMLYNX MODULES (DLYNX\_PICO\_EVAL-OPTION2)





Pre-Installed components for the SlimLynx<sup>TM</sup> include input filtering [ $C_{25}$  (0.047uF,16V),  $C_{22}$ (22uF,16V),  $C_{23}$ ,(22uF,16V),  $C_{26}$  (0.1uF,16V),  $C_{38}$ (470uF,16V)], output filtering [ $C_{34}$ (0.047uF,16V),  $C_{27}$ (0.1uF,16V)  $C_{28}$ ,  $C_{29}$ ,  $C_{31}$  (47mF,6.3V), C33 (1uF,16V)],  $C_{85}$  resistors,  $C_{10}$  R  $C_{10}$  R

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



Power and Analog Signal Interface for the PNDT012 Eval Board

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

<sup>\*</sup> The SlimLynx module can be assigned a specific address by connecting resistors (R9/R15) from the ADDRO 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.

<sup>\*\*</sup> HDR1/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".



#### **Notes:**

Note1: 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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