

SLG46857-AP DIP Adapter

Abstract

This document describes the DIP Adapter SLG46857-AP functionality and provides a quick start guide.

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1. Terms and Definitions

DIPA	DIP Adapter SLG46857-AP
GPI	General Purpose Input
GPIO	General Purpose Input/Output
IC	Integrated Circuit
SA	Socket Adapter
TP	Test point

2. References

[1] [SLG46857-A](#), Datasheet, Renesas Electronics.

3. Introduction and Board Overview

DIPA is a compact, easy-to-use hardware tool that provides SLG46857-AP IC hardware support for design emulation, programming, and real-time testing. DIPA is controlled by Go Configure Hub software with emulation and IC programming.

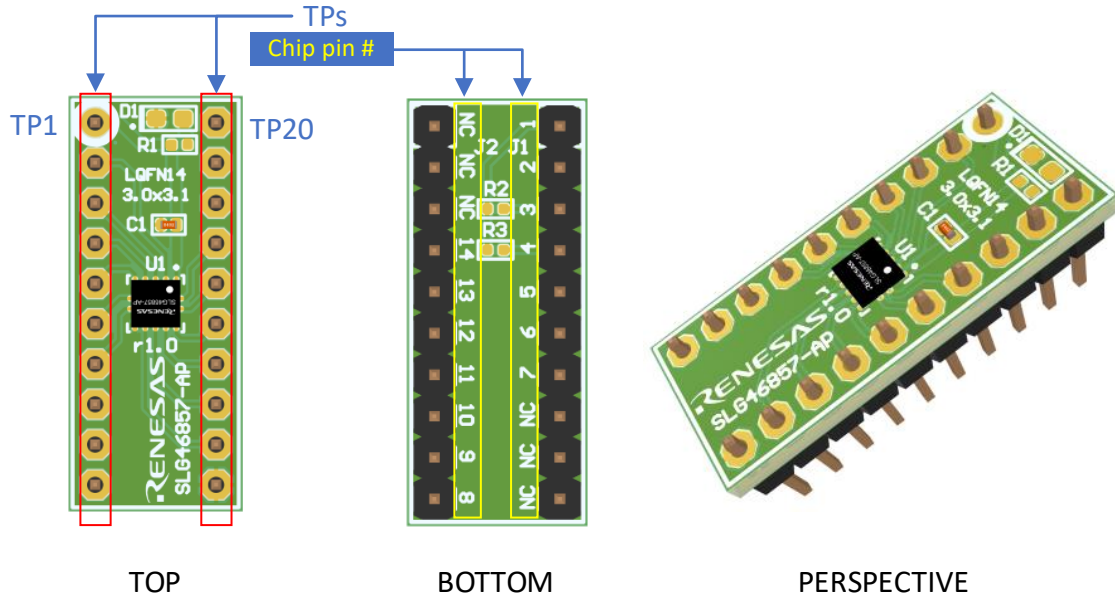


Figure 1. DIPA Views

Table 1. DIPA Pinout Description

Chip pin #	Chip pin name	SA connector J1 pin #	Pin Functions
1	VDD	TP1	Power Supply
2	GPIO	TP2	GPI, SLA_0
3	GPIO0	TP3	GPIO, SCL
4	GPIO1	TP4	GPIO, SDA
5	GPIO2	TP5	GPIO with OE, EXT_Vref0, SLA_1
6	GPIO3	TP6	GPIO with OE
7	GPO0	TP7	GPO, EXT_Vref1
8	GND	TP11	Ground
9	GPIO4	TP12	GPIO with OE, ACMP0_H+, SLA_2
10	GPIO5	TP13	GPIO with OE, ACMP1_H+, SLA_3
11	GPIO6	TP14	GPIO with OE, ACMP2_L+
12	GPIO7	TP15	GPIO with OE, ACMP3_L+
13	GPIO8	TP16	GPIO with OE, Vref0_OUT, TS_OUT
14	GPIO9	TP17	GPIO with OE, Vref1_OUT

4. Design Emulation, Programming, and Real-Time Testing

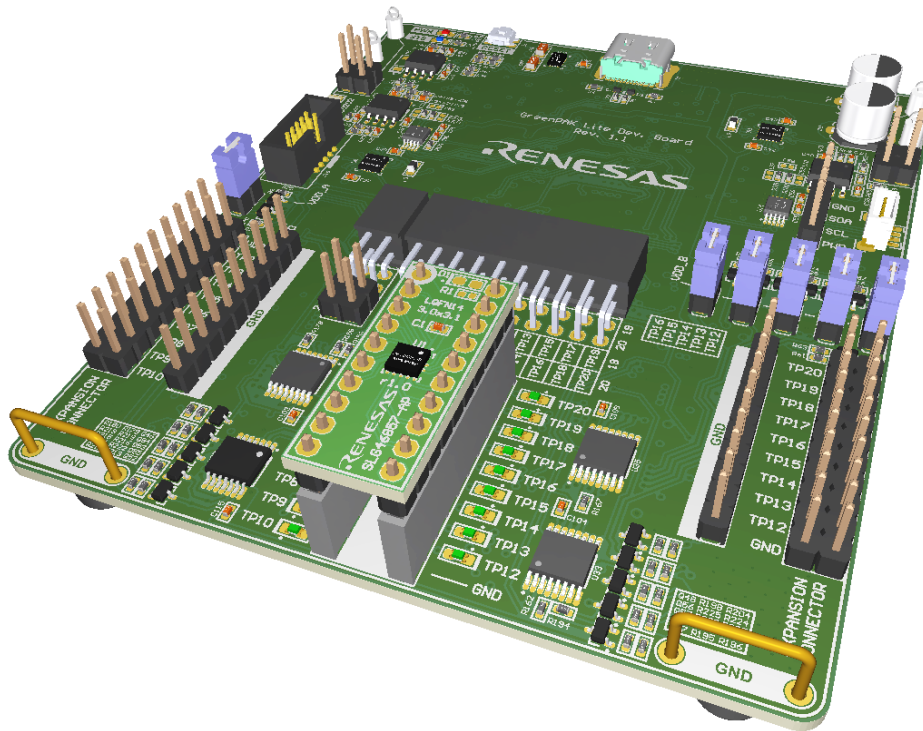


Figure 2. Light Development Board with DIPA

5. Board Dimensions

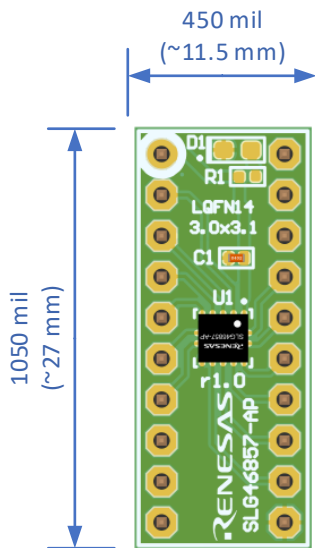


Figure 3. Board Assembly Top View Dimensions

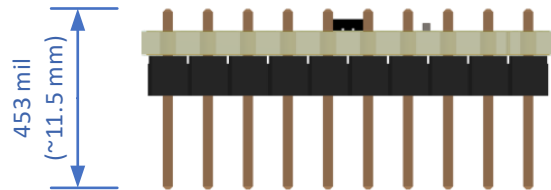


Figure 4. Board Assembly Side View Dimensions

6. Schematic Diagrams

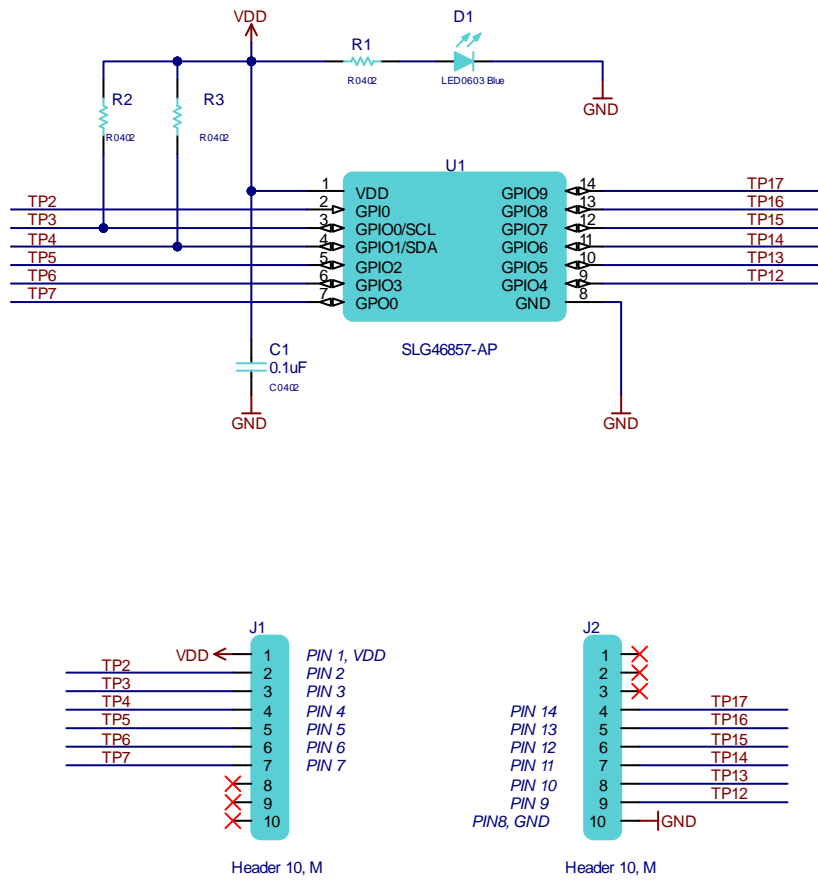


Figure 5. DIPA Board Schematic

Note:

D1, R1 are optional (not mounted by default). Can be used for power presence indication.

R2, R3 are optional (not mounted by default). I²C pull-ups.

7. Bill of Materials

#	Designator	Manufacturer Part Number	Manufacturer 1	Quantity
1	C1	C1005X7R1H104K050BB	TDK	1
2	J1, J2	PH1-10-UA	Adam Equipment	2
3	U1	SLG46857-AP	Renesas Electronics America	1
	Optional			
1	D1	SMD LED 0603	-	1
2	R1	SMD RES 0402 1k	-	1
3	R2, R3	SMD RES 0402 5.1k	-	2

8. Revision History

Revision	Date	Description
1.00	Aug 13, 2022	Initial release

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