
GreenPAK Socket Adapter TQFN-24 #3 User Manual

Abstract

This document describes the GreenPAK Socket Adapter TQFN-24 #3 functionality and provides a quick start guide.

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1. Terms and Definitions

GPIO	General Purpose Input/Output
IC	Integrated Circuit
SA	Socket Adapter
TP	Test point

2. References

[1] [SLG47004-AP](#), Datasheet, Renesas Electronics.

3. Introduction and Board Overview

SA GreenPAK TQFN-24 #3 is a compact, easy-to-use hardware tool that provides SLG47004-A IC hardware support for design emulation, programming, and real-time testing. SA is controlled by Go Configure Hub software with emulation and IC programming.

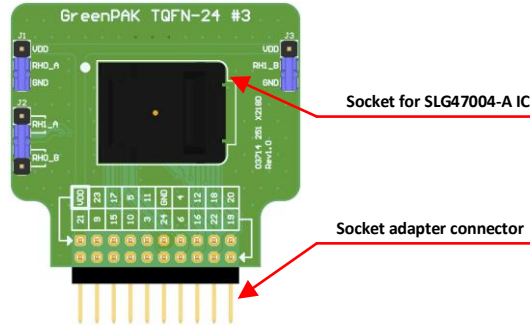


Figure 1. SA Pinout Description

Table 1. SA Pinout Description

Chip pin #	SA connector J1 pin #	Pin Functions
1, 13	VDD	Analog Power Supply, Digital Power Supply
2, 14	GND	Analog Ground, Digital Ground
3	TP10	Op Amp0 Inverting Input
4	TP13	Ip Amp0 Non-Inverting Input
5	TP7	Op Amp0_OUT, ACMP0L+
6	TP14	Digital Rheostat 0 Terminal A
7	-	Digital Rheostat 0 Terminal B
8	-	Digital Rheostat 1 Terminal A
9	TP4	Digital Rheostat 1 Terminal B
10	TP8	I ² C_SCL
11	TP9	I ² C_SDA
12	TP15	GPIO0, ACMP0L-, ACMP1L-, EXT_OSC0_IN, Vref0_Out or Temp_Sens_Out
15	TP6	GPIO1, Chop_ACMP+, Vref1_OUT or Temp_Sens_Out, EXT_OSC1_IN or SLA_0
16	TP16	GPIO2, ACMP0L+, EXT_OSC2_IN, SLA_1
17	TP5	GPIO3, AS_1_A, ACMP1L+ or SLA_2
18	TP17	GPIO4, AS_1_B, Chop_ACMP- or SLA_3
19	TP20	GPIO5, AS_0_B
20	TP19	GPIO6, AS_0_A, HD_Buff_Out, In Amp_Vref
21	TP2	GPIO, In Amp_OUT
22	TP18	Op Amp1_OUT, ACMP1L+
23	TP3	Op Amp1 Non-inverting Input
24	TP12	Op Amp1 Inverting Input

4. Board Dimensions

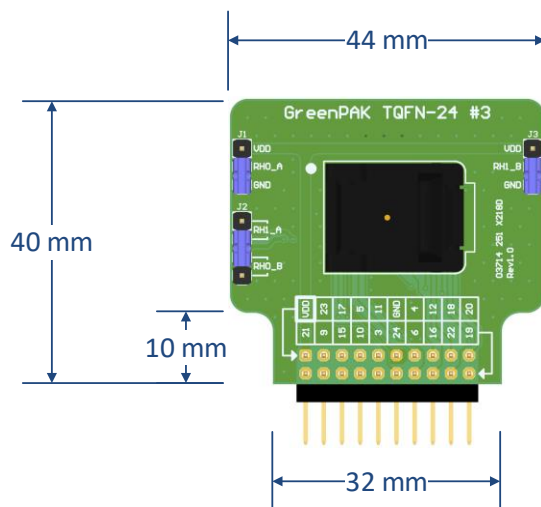


Figure 2. Board Assembly Top View Dimensions

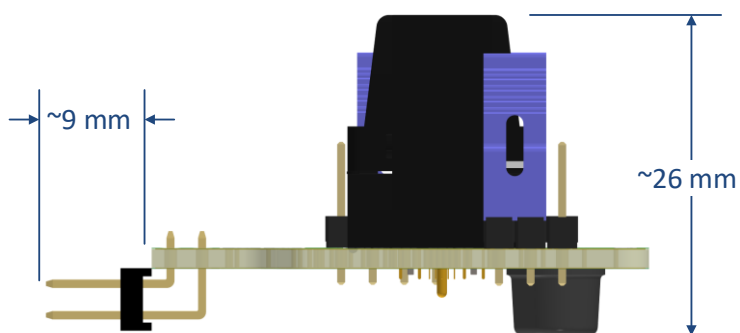


Figure 3. Board Assembly Side View Dimensions

5. Board Schematic

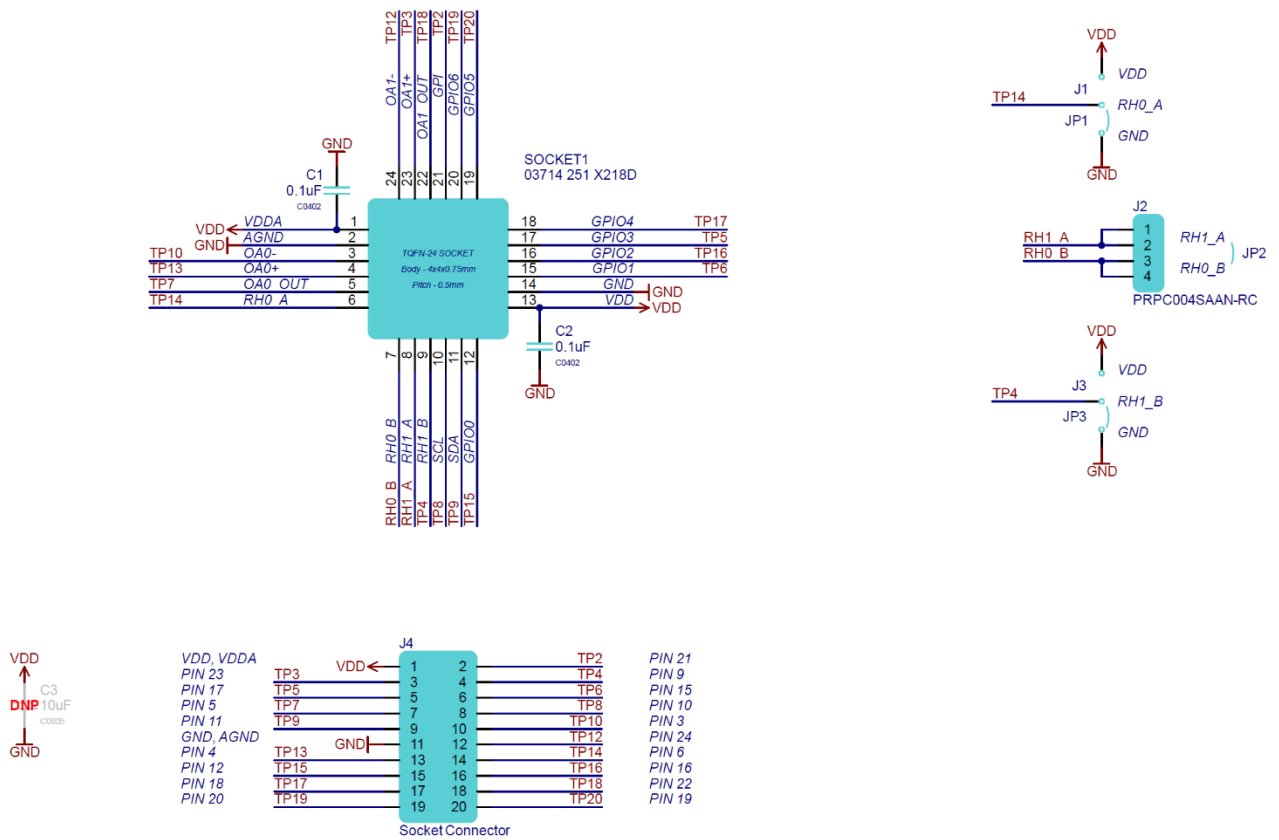


Figure 4. Board Schematic

6. Bill of Materials

#	Designator	Name	Manufacturer Part Number	Manufacturer 1	Quantity
1	BP1	SJ61A6	7010334512	3M	1
2	C1, C2	0.1uF 10% 50V X7R 0402	CL05B104KB54PNC	Samsung	2
3	J1, J3	PRPC003SAAN-RC	PRPC003SAAN-RC	Sullins	2
4	J2	PRPC004SAAN-RC	PRPC004SAAN-RC	Sullins	1
5	J4	68021-220HLF	68021-220HLF	Amphenol ICC / FCI	1
6	JP1, JP2, JP3	NPC02SXON-RC	NPC02SXON-RC	Sullins	3
7	SOCKET1	03714 251 X218D	03714 251 X218D	Loranger	1

7. Revision History

Revision	Date	Description
1.00	Sep 19, 2024	Initial release