

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.

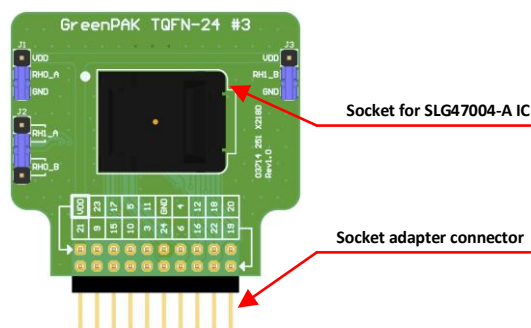


Figure 1. SA Pinout Description

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

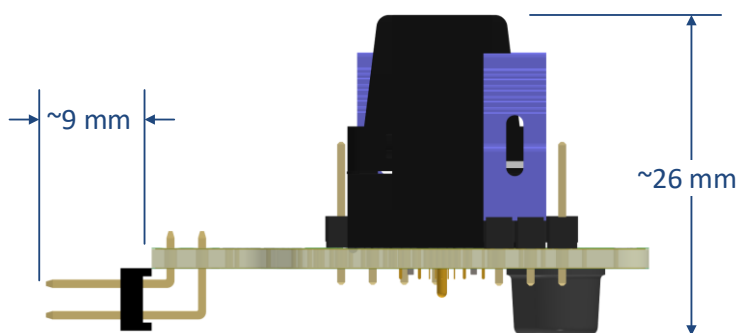


Figure 3. Board Assembly Side View Dimensions

5. Board Schematic

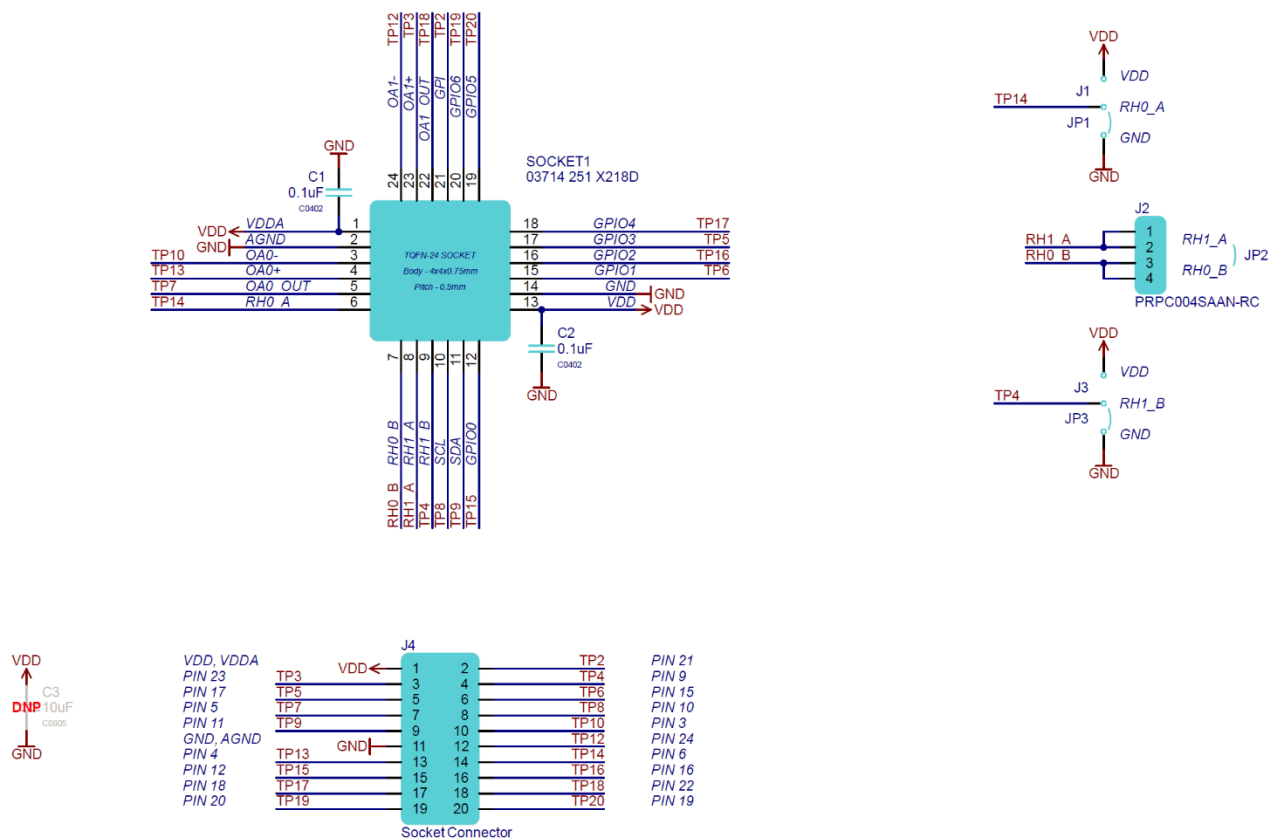


Figure 4. Board Schematic

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