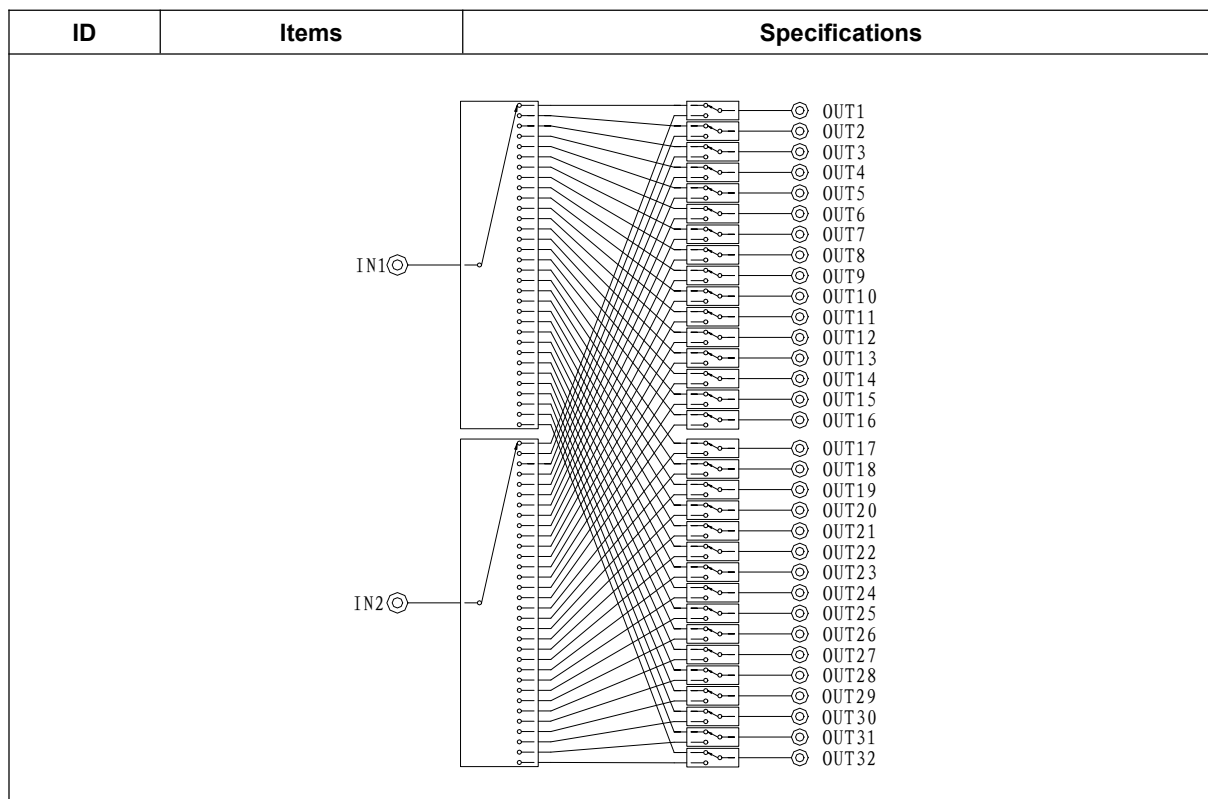


HX232KGGF4081G Switch Matrix Module

1. Functional Diagram



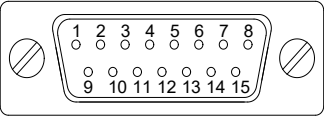
2. Description

ID	Items	Specifications
2-1	Type	Absorptive 2*32 Switch Matrix Module
2-2	Frequency Range	0.4 ~ 8GHz
2-3	Isolation	≥80dB
2-4	Insertion Loss	≤9.5dB
2-5	VSWR	≤1.8
2-6	Impedance	50Ω
2-7	RF Input Power	2W
2-8	Switching Speed	≤200ns
2-9	Input/Output Connectors	SMA-F
2-10	Control Connectors	DB15-male
2-11	Control	TTL=0 ~ 0.8V/3.3 ~ 5V
2-12	DC Power Supply	+5V/2.6A, -5V/0.6A

3. Environmental Specifications

ID	Items	Specifications
3-1	Operational Temperature	-40°C ~ +70°C
3-2	Storage Temperature	-55°C ~ +85°C

4. Interface

ID	Items	Specifications
4-1	Control Connectors	DB15-male
		
4-2	NO	Specifications
	1、 2	+5V
	3	-5V
	4、 5	GND
	6	T1
	7	T2
	8	T3
	9	T4
	10	T5
	11	T6
	12	T7
	13	T8
	14	T9
	15	T10

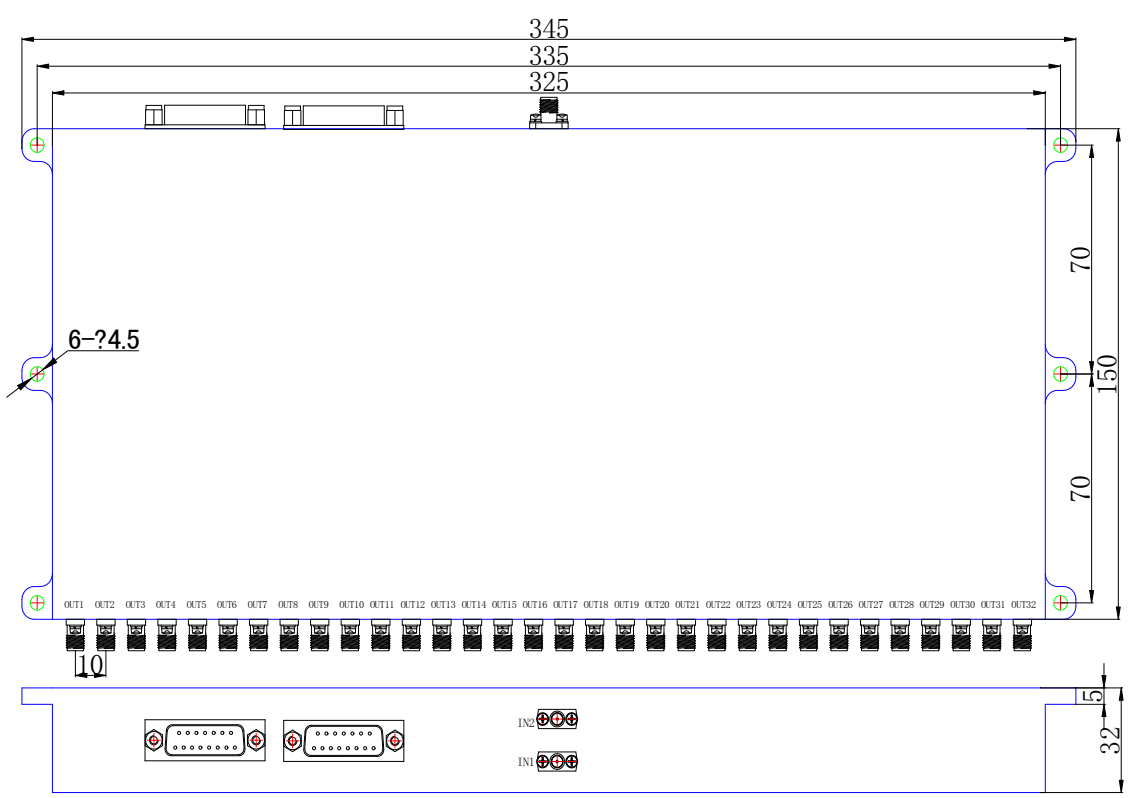
5. Truth Table

T5	T4	T3	T2	T1	Signal Path State
0	0	0	0	0	IN1→OUT1
0	0	0	0	1	IN1→OUT2
0	0	0	1	0	IN1→OUT3
0	0	0	1	1	IN1→OUT4
0	0	1	0	0	IN1→OUT5
0	0	1	0	1	IN1→OUT6
0	0	1	1	0	IN1→OUT7
0	0	1	1	1	IN1→OUT8
0	1	0	0	0	IN1→OUT9
0	1	0	0	1	IN1→OUT10
0	1	0	1	0	IN1→OUT11
0	1	0	1	1	IN1→OUT12
0	1	1	0	0	IN1→OUT13
0	1	1	0	1	IN1→OUT14
0	1	1	1	0	IN1→OUT15
0	1	1	1	1	IN1→OUT16
1	0	0	0	0	IN1→OUT17

1	0	0	0	1	IN1→OUT18
1	0	0	1	0	IN1→OUT19
1	0	0	1	1	IN1→OUT20
1	0	1	0	0	IN1→OUT21
1	0	1	0	1	IN1→OUT22
1	0	1	1	0	IN1→OUT23
1	0	1	1	1	IN1→OUT24
1	1	0	0	0	IN1→OUT25
1	1	0	0	1	IN1→OUT26
1	1	0	1	0	IN1→OUT27
1	1	0	1	1	IN1→OUT28
1	1	1	0	0	IN1→OUT29
1	1	1	0	1	IN1→OUT30
1	1	1	1	0	IN1→OUT31
1	1	1	1	1	IN1→OUT32
T10	T9	T8	T7	T6	Signal Path State
0	0	0	0	0	IN2→OUT1
0	0	0	0	1	IN2→OUT2
0	0	0	1	0	IN2→OUT3
0	0	0	1	1	IN2→OUT4
0	0	1	0	0	IN2→OUT5
0	0	1	0	1	IN2→OUT6
0	0	1	1	0	IN2→OUT7
0	0	1	1	1	IN2→OUT8
0	1	0	0	0	IN2→OUT9
0	1	0	0	1	IN2→OUT10
0	1	0	1	0	IN2→OUT11
0	1	0	1	1	IN2→OUT12
0	1	1	0	0	IN2→OUT13
0	1	1	0	1	IN2→OUT14
0	1	1	1	0	IN2→OUT15
0	1	1	1	1	IN2→OUT16
1	0	0	0	0	IN2→OUT17
1	0	0	0	1	IN2→OUT18
1	0	0	1	0	IN2→OUT19
1	0	0	1	1	IN2→OUT20
1	0	1	0	0	IN2→OUT21
1	0	1	0	1	IN2→OUT22
1	0	1	1	0	IN2→OUT23
1	0	1	1	1	IN2→OUT24
1	1	0	0	0	IN2→OUT25
1	1	0	0	1	IN2→OUT26

1	1	0	1	0	IN2→OUT27
1	1	0	1	1	IN2→OUT28
1	1	1	0	0	IN2→OUT29
1	1	1	0	1	IN2→OUT30
1	1	1	1	0	IN2→OUT31
1	1	1	1	1	IN2→OUT32

6. Outline Drawing

ID	Items	Specifications
6-1	Outline Drawing	Unit: mm
Tolerances:±0.1mm		
 <p>The drawing shows a rectangular enclosure with a total width of 345 mm and a total height of 150 mm. The top edge has a width of 335 mm, and the bottom edge has a width of 325 mm. The top edge has a 70 mm wide section on the right side. The bottom edge has a 70 mm wide section on the right side. The bottom edge has a 5 mm wide section on the right side. The bottom edge has a 32 mm wide section on the right side. The left edge has a 6-φ4.5 hole. The bottom edge has 32 ports labeled OUT1 to OUT32. The bottom edge has two IN1 and IN2 ports. The bottom edge has two IN1 and IN2 ports. The bottom edge has two IN1 and IN2 ports.</p>		
6-2	Material	Aluminum
6-3	Finished	Nickel Plated
6-4	Weight	/

NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.