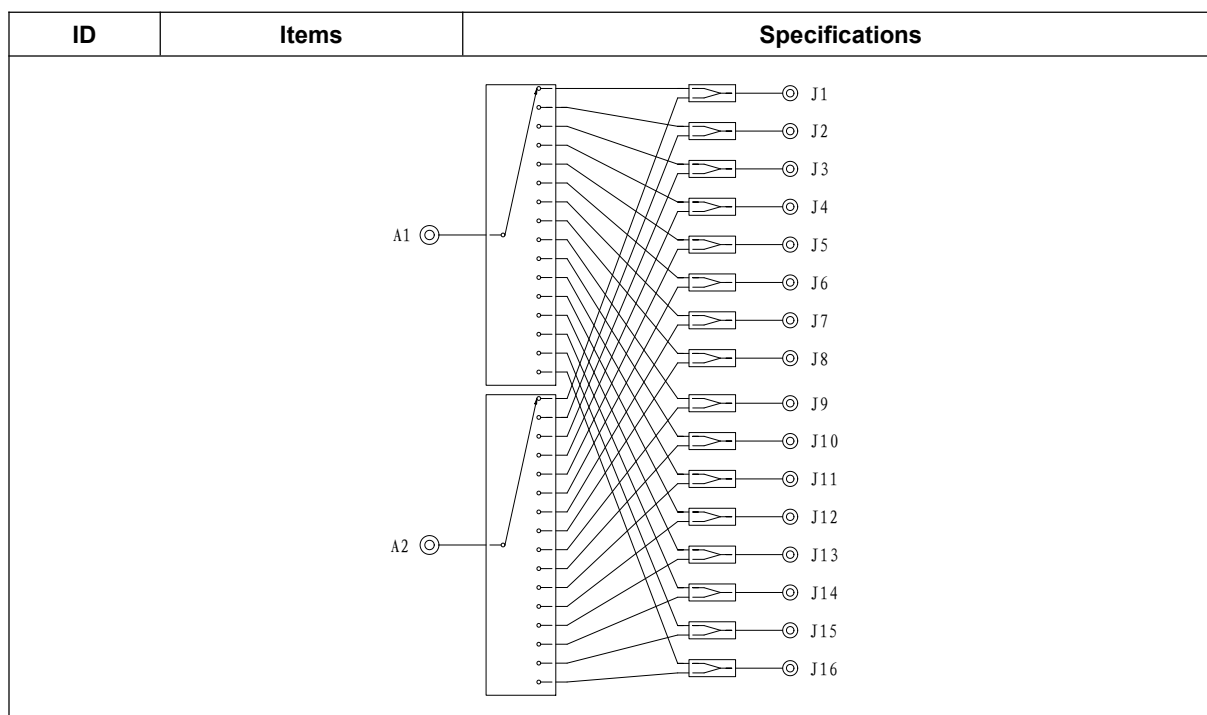


# HX2P16T4081G Switch Matrix Module

## 1. Functional Block Diagram



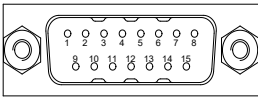
## 2. Description

ID	Items	Specifications
2-1	Type	Absorptive 2*16 Switch Matrix Module
2-2	Frequency Range	0.4GHz ~ 8GHz
2-3	Isolation	≥80dB
2-4	Insertion Loss	≤8.0dB
2-5	VSWR	≤1.7
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 Connector	DB15-Male
2-11	Control	TTL=0V/3.3V ~ 5V
2-12	DC Power Supply	+5V/≤1.8A

## 3. Environmental Specifications

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

## 4. Interface

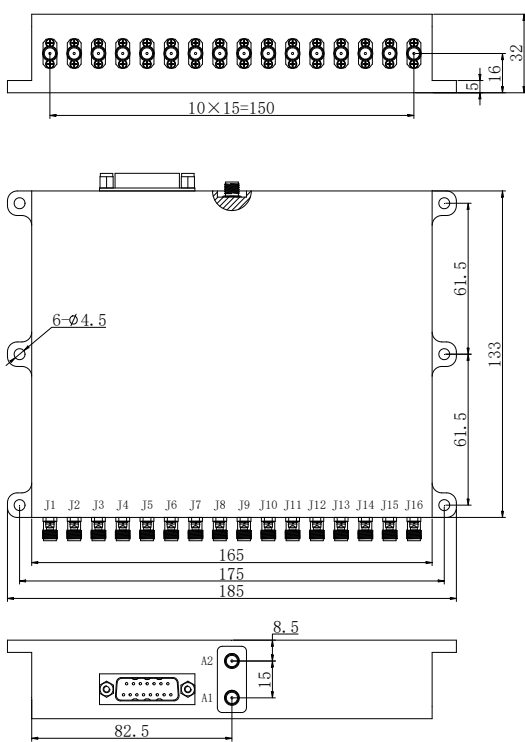
ID	Items	Specifications
4-1	Control Connector	DB15-Male
		
4-2	NO	Specifications
	1	C1
	2	C2
	3	C3
	4	C4
	5	C5
	6	C6
	7	C7
	8	C8
	9	C9
	10	C10
	11	NC
	12	NC
	13	+5V
	14	NC
15	GND	

### 5.Truth Table

ID	C5	C4	C3	C2	C1	Signal Path State
5-1	0	0	0	0	0	A1-J1
	0	0	0	0	1	A1-J2
	0	0	0	1	0	A1-J3
	0	0	0	1	1	A1-J4
	0	0	1	0	0	A1-J5
	0	0	1	0	1	A1-J6
	0	0	1	1	0	A1-J7
	0	0	1	1	1	A1-J8
	0	1	0	0	0	A1-J9
	0	1	0	0	1	A1-J10
	0	1	0	1	0	A1-J11
	0	1	0	1	1	A1-J12
	0	1	1	0	0	A1-J13
	0	1	1	0	1	A1-J14
	0	1	1	1	0	A1-J15
	0	1	1	1	1	A1-J16
	1	0	0	0	0	0
ID	C10	C9	C8	C7	C6	Signal Path State

5-2	0	0	0	0	0	A2-J16
	0	0	0	0	1	A2-J15
	0	0	0	1	0	A2-J14
	0	0	0	1	1	A2-J13
	0	0	1	0	0	A2-J12
	0	0	1	0	1	A2-J11
	0	0	1	1	0	A2-J10
	0	0	1	1	1	A2-J9
	0	1	0	0	0	A2-J8
	0	1	0	0	1	A2-J7
	0	1	0	1	0	A2-J6
	0	1	0	1	1	A2-J5
	0	1	1	0	0	A2-J4
	0	1	1	0	1	A2-J3
	0	1	1	1	0	A2-J2
	0	1	1	1	1	A2-J1
	1	0	0	0	0	A2 ALL OFF

### 6.Outline Drawing

ID	Items	Specifications
6-1	Outline Drawing	Unit: mm
Tolerances:±0.5mm		
		
6-2	Material	Aluminum
6-3	Finish	Nickel Plated
6-4	Weight	/

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**7.Note**

7-1	Should be take the ESD protection during use.
7-2	Exceeding the rated input power limit may cause the product to burn out.
7-3	Avoid using in extreme temperature, humidity, or corrosive environments.
7-4	Good grounding can reduce EMI and RFI.
7-5	All specifications are subject to change without notice at any time.