0.03-8GHz Broadband Switch

P/N: SP40T00030800GAC60A

Description:

The switch is a broadband switch with a typical insertion loss of 7 dB and a high isolation of 70 dB across the frequency range of 0.05 to 8 GHz. The switch speed 5ms. The AC power requirement for the switch is 220/50Hz VAC .Accept customization according to different needs.

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications（+25℃）:

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.03-8		GHz
Insertion Loss@0.05-4GHz		7	8.5	dB
Insertion Loss@4-8GHz		8	9.5	dB
Band Ripple			±1.2	dB
VSWR@0.05-4GHz		1.5	2.0	-
VSWR@4-8GHz		1.8	2.0	-
Isolation@0.05-4GHz	70	75		dB
Isolation@4-8GHz	60	65		dB
Switch Speed		5		ms
Power Handing			23	dBm
AC		110~220V/50Hz		
Control Mode		LAN		-
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Switch Type		Absorptive		
Material		Aluminium		
Size		2U		
Package Sealing		General Sealing (Standard)		

Environmental Specifications:

※ Operational Temperature -25℃~+85℃

※ Storage Temperature -55℃~+125℃

RoHS COMPLIANT

OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

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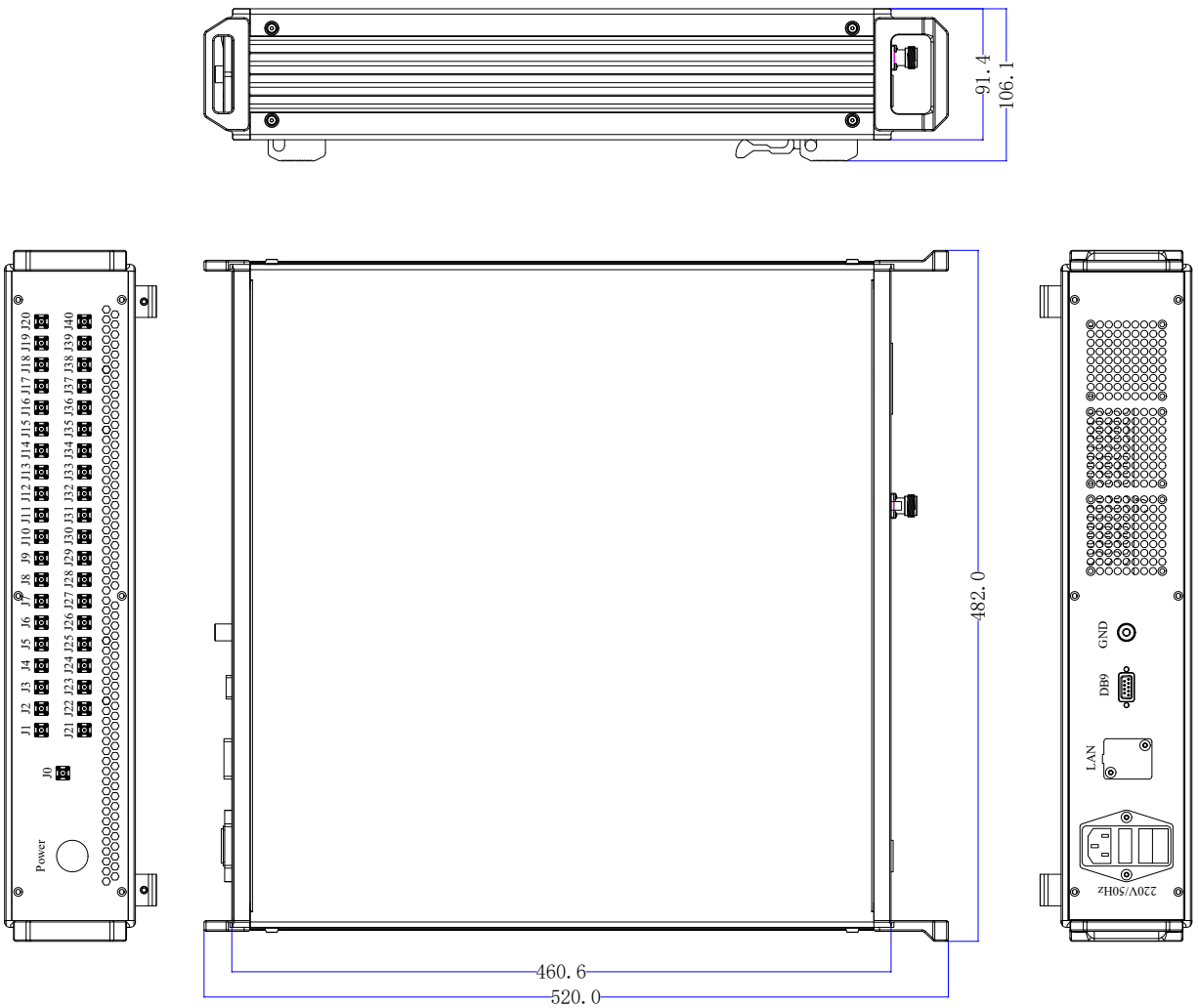
■ Outline Drawing

All Dimensions in mm（inches） Tolerance ±0.25（0.01）



NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

Control protocol

1)、Communication protocol

1. LAN-UDP protocol:

Adjustable address.

Feedback states after control.

2. Control message

2.1. Control frame (8 Bytes)

Num	Bit Add	Description	Comment
BYTE0	BIT7-BIT0	Head 0x7B	
BYTE1	BIT7-BIT0	This is the module address 0x38	
BYTE2	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE3	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE4	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE5	BIT7-BIT0	Switch Byte	0x00 means 1st Channel. Up to #40 Channels, That means the byte is 0x27.
BYTE6	BIT7-BIT0	Byte-Hold 0x42	
BYTE7	BIT7-BIT0	Tail 0x7D	

Table1: Control frame

Examples:

Set to the J0-J5 Channel:

HEX: 0x7B 0x37 0x42 0x42 0x42 0x04 0x42 0x7D

Set to the J0-J19 Channel:

HEX: 0x7B 0x37 0x42 0x42 0x42 0x12 0x42 0x7D

Set to the J0-J40 Channel:

HEX: 0x7B 0x37 0x42 0x42 0x42 0x27 0x42 0x7D

2.2 Feedback frame（8 Bytes）

Num	Bit Add	Description	Comment
BYTE0	BIT7-BIT0	Head 0x5B	
BYTE1	BIT7-BIT0	This is the module address 0x38	
BYTE2	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE3	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE4	BIT7-BIT0	Byte-Hold 0x42	Void
BYTE5	BIT7-BIT0	Switch Byte	0x00 means 1st Channel. Up to #40 Channels, That means the byte is 0x27.
BYTE6	BIT7-BIT0	Byte-Hold 0x42	
BYTE7	BIT7-BIT0	Tail 0x5D	

Table2: Feedback frame

Examples:

Set to the J0-J5 Channel:

HEX: 0x5B 0x37 0x42 0x42 0x42 0x04 0x42 0x5D

Set to the J0-J19 Channel:

HEX: 0x5B 0x37 0x42 0x42 0x42 0x12 0x42 0x5D

Set to the J0-J40 Channel:

HEX: 0x5B 0x37 0x42 0x42 0x42 0x27 0x42 0x5D

Comment: If Switch channel exceeds #40, It's actually switch to #40, feedback channel #40.