



# ABSORPTIVE SWITCH

## MVE9161

**SP16T 0.001-8GHz**  
**USB/TTL Control**

### Features

- ✓ Wide Band Operation 0.1-8GHz
- ✓ High Isolation
- ✓ TTL Compatible driver include

### SPECIFICATIONS

RF CHARACTERISTICS	
FREQUENCY RANGE	0.001-8GHz
VSWR MAX	1.5:1
INSERTION LOSS MAX.	6.5dB
ISOLATION MIN.	80dB
RF INPUT POWER	0.5W
ELECTRICAL CHARACTERISTICS	
SWITCHING SPEED MAX.	150nS
CHANNEL AMPLITUDE CONSISTENCY	≤±0.4dB
CHANNEL PHASE CONSISTENCY	≤±3°
ACTUATOR VOLTAGE(V)	DC +5V
MECHANICAL CHARACTERISTICS	
CONNECTORS	SMA Female
ENVIRONMENT SPECIFICTIONS	
OPERATIONAL TEMPERATURE	-40°C~+70°C
	Design to meet the Spec.

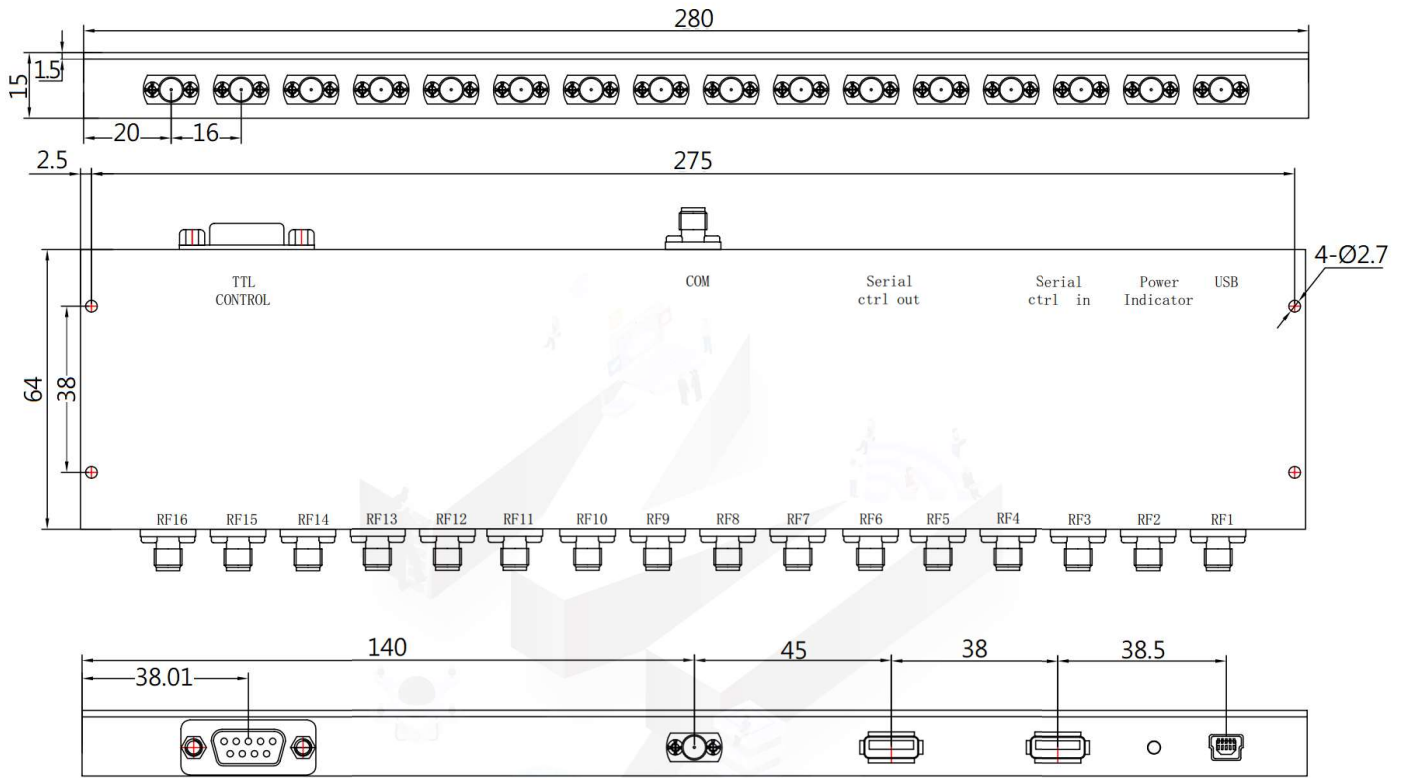
NOTES:  
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME  
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY





Tolerance: X= ±5%

**Outline Drawing (Unit: mm)**



**Pin Connections**

Pin Number	Function
1	Vcc (5.0~6.0V)
2	GND
3	D0
4	D1
5	D2
6	D3
7	D4
8	Not Connected
9	Not Connected

**USB and D-SUB PORT**

Parameter	port	MIN.	TYP.	MAX.	unit
Transition Time			5	9.5	us
Minimumd well time			15		us
Switch time(USB)			2		ms
Switch time(LVTTL)	USB or D-Sub port		12		us
Supply voltage (Vcc)		4.75	5	5.25	VDC
Supply current (Icc)			60	90	mA
Crrent pass-through			500		

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## Control Voltages for LVTTL Control

Parameter		Min	Typ	Max	Units
Control input	Low	0	-	0.8	V
	High	2	-	3.3	

Port	Control Bits				
	D0	D1	D2	D3	D4
RFC-RF1	High	Low	Low	Low	Low
RFC-RF2	Low	High	Low	Low	Low
RFC-RF3	High	High	Low	Low	Low
RFC-RF4	Low	Low	High	Low	Low
RFC-RF5	High	Low	High	Low	Low
RFC-RF6	Low	High	High	Low	Low
RFC-RF7	High	High	High	Low	Low
RFC-RF8	Low	Low	Low	High	Low
RFC-RF9	High	Low	Low	High	Low
RFC-RF10	Low	High	Low	High	Low
RFC-RF11	High	High	Low	High	Low
RFC-RF12	Low	Low	High	High	Low
RFC-RF13	High	Low	High	High	Low
RFC-RF14	Low	High	High	High	Low
RFC-RF15	High	High	High	High	Low
RFC-RF16	Low	Low	Low	Low	High
ALL OFF	Low	Low	Low	Low	Low

Note: "low = 0" : 0~0.8V, "High = 1" : 2.0~3.3V

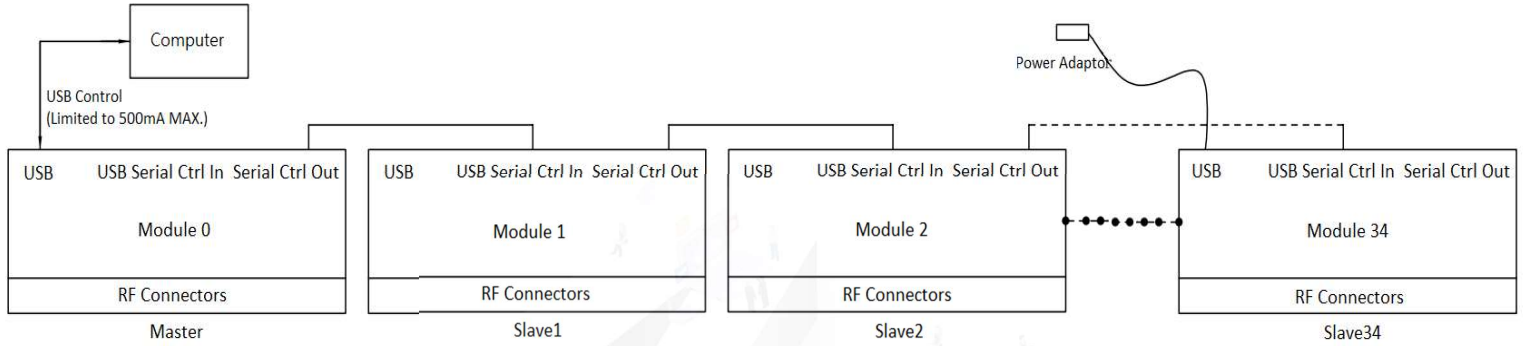
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## Typical Application

Using the computer software, it can control the switches online at the same time. This system can control 35 modules, based on the serial number and physical address of the device.



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