

# Switch Matrix - SW08-DP



## Description

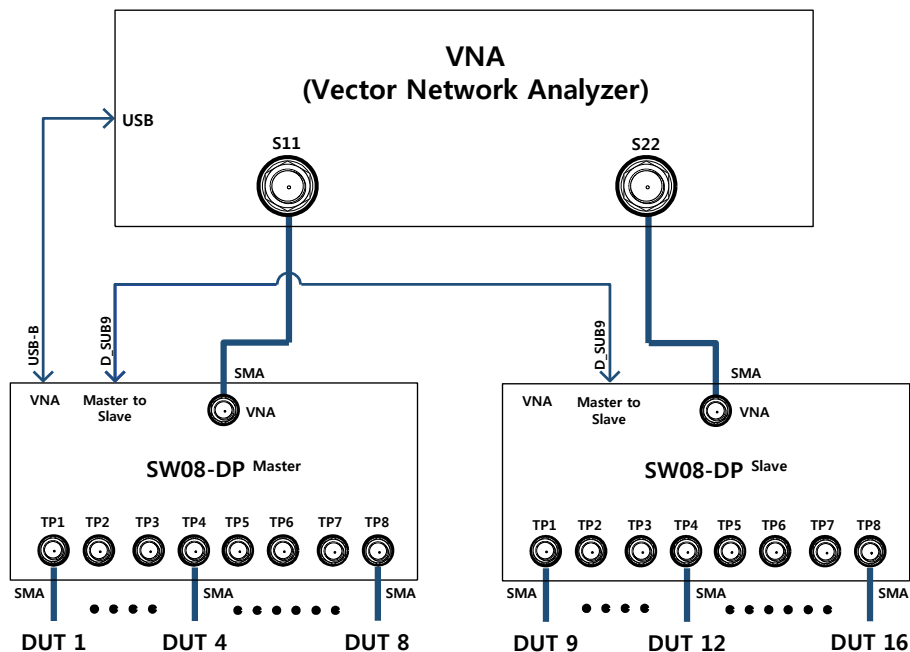
The Polaris SW08-DP Switch Matrix provides automatic routing between Vector Network Analyzer and the device under test (DUT) in an RF/microwave ATE system. This Switch Matrix provides consistent signal paths, enable automation of tests.

The SW08-DP consists of 8 switch channels, and each channel can be used up to 8GHz. In addition, it is possible to expand the switch channels up to 16 by connecting two SW08-DPs to master or slave, respectively.



This provides the capability to test a wide range of RF and telecommunication products and devices.

## Application



## Specifications

Parameters			Specifications @25°C & static				
			Unit	Min.	Typ.	Max.	
General	Number of VNA ports			1			
	Number of test ports			8			
	Switching configuration			Direct, Non Crossbar			
	Impedance		Ω	50			
	Operating temperature range		°C	18		28	
RF	Operating frequency range		GHz	0.01		8	
	Insertion loss	0.01 GHz to 2 GHz		dB		5.5	
		2 GHz to 4 GHz				6.5	
		4 GHz to 6 GHz				7	
		6 GHz to 7GHz				7.5	
		7GHz to 8 GHz				9	
	VSWR	any selected port	0.01 GHz to 7 GHz		: 1	1.2	1.5
			7 GHz to 8 GHz			1.4	1.8
		any unselected port	0.01 GHz to 6 GHz			1.2	1.5
			6 GHz to 7 GHz			1.3	1.7
			7 GHz to 8 GHz			1.5	1.9
Isolation		dB	40	60			
Damage RF power at VNA port		dBm		20	23		
Switching time			ms		1	5	
Connectors	Front Panel	VNA		SMA – Female			
		TP1 to TP8		SMA – Female			
	Rear Panel	VNA <b>Note1</b>		USB - type B			
		Master to Slave <b>Note2</b>		9 way D_Sub_Plug			
		Instrument ID <b>Note3</b>		4 pin Dip Switch			
		Grounding		Metal Round Terminal			
Supply Voltage		Voltage	Vac	90		264	
		Frequency	Hz	47		63	
Dimension with rubber supporter (W × L × H)			mm	257 x 252 x 53			
Dimension without rubber supporter for rack mount (W × L × H)			mm	257 x 252 x 43			
Weight			Kg	1.3			

Note 1: Interface between VNA and SW08-DP

Note 2: Interface between SW08-DP-master and SW08-SP-slave

Note 3: Switch to select whether to use SW08-DP in master mode or slave mode

LSB (Pin 1) OFF: Master Mode, LSB (Pin 1) ON: Slave Mode

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