



**Synergy Telecom
PVT LTD**



**RF test systems
And components**

Catalogue

- **Programable attenuator**
- **RF Switch Systems**
- **Radio Shifter Systems**
- **Programmable PSA systems**
- **Optical Switch Systems**
- **Power Switches**
- **Shielding boxes**
- **Fixed Attenuators**
- **Terminations**
- **Variable Attenuators**
- **Power Dividers**
- **Circulators**
- **Duplexers**
- **RF Cables**
- **Antennas**
- **RF Adaptors**
- **Patch Panel**



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Programmable Attenuators



PORTABLE SYSTEM FEATURES :

A1 is suitable for lab testing on table. Users can easily simulate path loss on each channel or simulate mobility scenarios between the sectors with usage of power combiners. The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/WiMAX.

SPECIFICATION		
Dimension	76.6 x 56.6 x 26 mm	76.6 x 56.6 x 26 mm
Channel	≤ 8	≤ 8
Frequency Range	10MHz – 6GHz	5GHz – 45GHz
Impedance	50 Ω	50 Ω
Attenuation	0-127 dB, 1dB / 0.5dB / 0.25dB per step	0-100 dB, 0.5dB per step
VSWR (Avg)	≤ 1.45	≤ 1.75
Attenuation Accuracy	0-31 $\leq \pm 0.25$ dB; 32-100 $\leq \pm 0.5$ dB	0-31 $\leq \pm 0.5$ dB; 32-100 $\leq \pm 1$ dB
Insertion loss	0.7GHz ≤ 5.3 dB, 3GHz ≤ 6.8 dB, 6GHz $\leq$	6GHz ≤ 14 dB, 28GHz ≤ 20 dB, 45GHz ≤ 30 dB
Input Power (Avg.)	+ 33 dBm	+ 33dBm
Power supply	100 - 240 VAC 50 - 60 Hz	100 - 240 VAC 50 - 60 Hz
Control Interface	RS - 232 and Ethernet	RS - 232 and Ethernet
RF Input Control	SMA (f)	SMA (f)
Temperature Range	-10-50°C (14-122 °F)	-10-50°C (14-122 °F)

Programmable Attenuators

Independent Path Systems



4-220 Tabletop



Radio Rack 8-230



Radio Rack 24-220

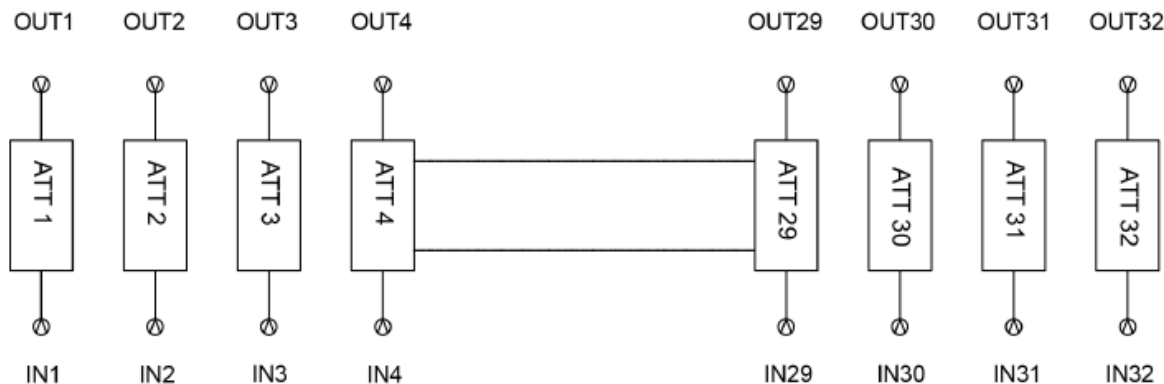
Features:

Independent Channel Programmable Attenuators System is suitable for lab testing by controlling independent bidirectional RF channels. Users can easily simulate path loss on each channel or simulate mobility scenarios between the sectors with usage of power combiners. The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/WiMAX.

SEPECIFICATION		
Frequency Range	10MHz – 6GHz	5GHz – 45GHz
Impedance	50 Ω	50 Ω
Attenuation	0-127 dB, 1dB / 0.5dB / 0.25dB per step	0-100 dB, 0.5dB per step
VSWR (Avg.)	≤ 1.45	≤ 1.75
Attenuation Accuracy	0-31 $\leq \pm 0.25$ dB; 32-100 $\leq \pm 0.5$ dB	0-31 $\leq \pm 0.5$ dB; 32-100 $\leq \pm 1$ dB
Insertion Loss	0.7GHz ≤ 5.3 dB, 3GHz ≤ 6.8 dB, 6GHz ≤ 9.8 dB	6GHz ≤ 14 dB, 28GHz ≤ 20 dB, 45GHz ≤ 30 dB
Input Power (Avg.)	+33 dBm	+33 dBm
Power Supply	100 - 240 VAC 50 - 60 Hz	100 - 240 VAC 50 - 60 Hz
Control Interface	RS - 232 and Ethernet	RS - 232 and Ethernet
RF Input Connector	SMA (F)	SMA (F)
Temperature range	-10-50°C (14-122 °F)	-10-50°C (14-122 °F)

Programmable Attenuators

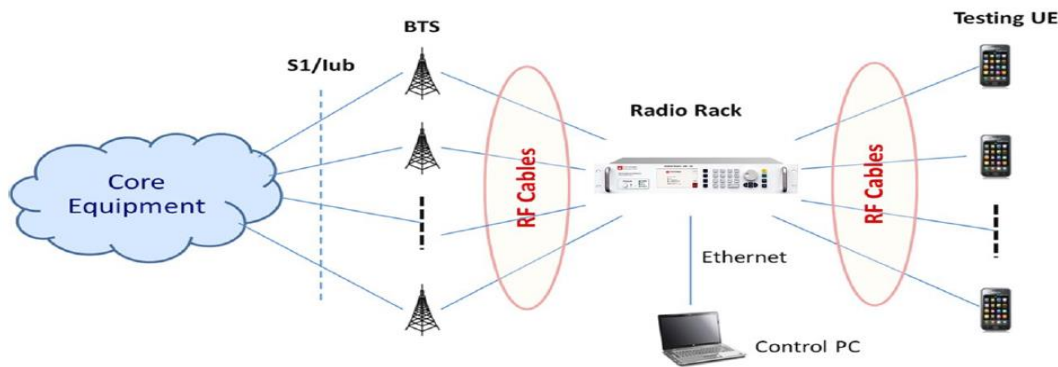
System Diagram:



Independent Channel products :

Model	Channel	Dimension	Frequency	Attenuation
2-220 Table top	2	210 x 76x 19 mm	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
4-220 Table Top	3	210 x 76 x 19 mm	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
4-220	4	210 x 76 x 19 mm	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
8-220	8	19" Rack , 2U	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
8-230	8	19" Rack , 1U	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
16-220	16	19" Rack , 2U	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
24-220	24	19" Rack , 2U	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB
32-220	32	19" Rack , 2U	10MHz-6GHz / 5GHz-45GHz	0-127dB/0.25bB

Application:

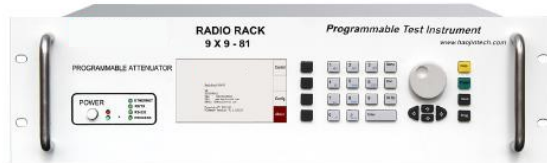


Programmable Attenuators

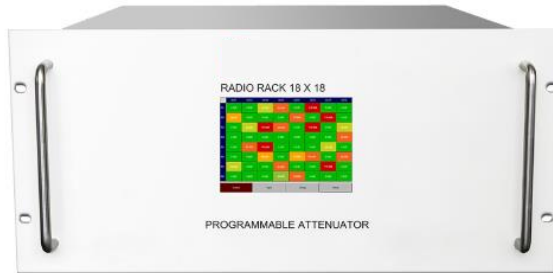
Matrix Systems



2x2-4 Tabletop



Radio Rack 9x9-81



Radio Rack 18x18

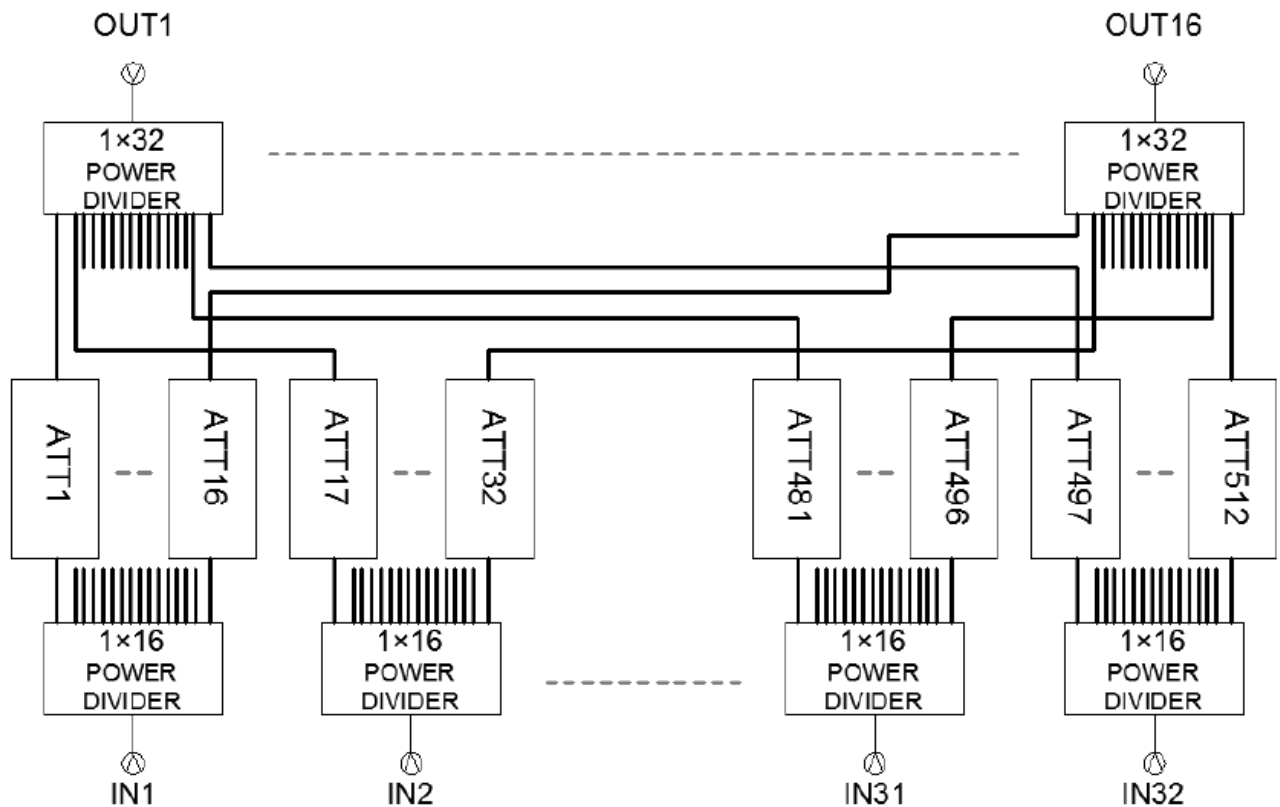
Features :

Matrix Programmable Attenuators System is suitable for lab testing by controlling independent bidirectional RF channels. Users can easily simulate path loss on each channel or simulate mobility scenarios between the sectors with usage of power combiners. The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/WiMAX

Specification	
Frequency range	600MHz – 6GHz
Impedance	50 ohm
Attenuation	0-127 dB, 1dB / 0.5dB / 0.25dB per step
VSWR (Avg.)	≤ 1.45
Attenuation Accuracy	$0-31 \leq \pm 0.25\text{dB}$; $32-100 \leq \pm 0.5\text{dB}$
Insertion loss	$0.7\text{GHz} \leq 5.3\text{dB}$, $3\text{GHz} \leq 6.8\text{dB}$, $6\text{GHz} \leq 9.8\text{dB}$
Input Power (Avg.)	+33 dBm
Power Supply	100 - 240 VAC 50 - 60 Hz
Control Interface	RS – 232 Ethernet
RF Input connector	SMA (F)
Temperature range	-10-50°C (14-122 °F)

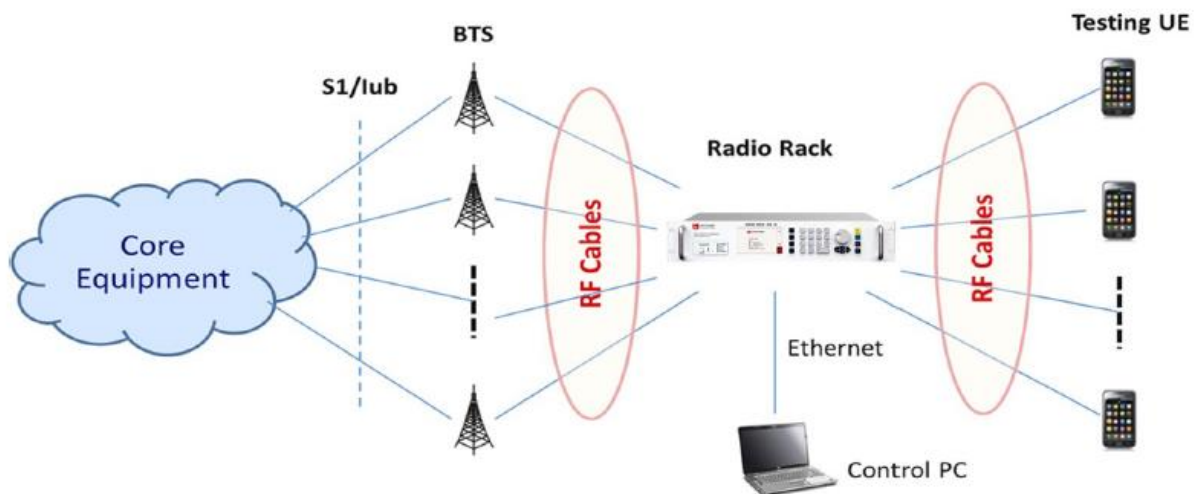
Programmable Attenuators

System Diagram:



Radio Rack 32x16-512

Application:



Programmable Attenuators

Matrix Series Products Specifications

Model	Insertion Loss		Frequency	Attenuation
2x2-4 Tabletop	14dB @3G	17.8dB @6G	5GHz-45GHz	0-127dB/0.25dB
4x4-16	20.8dB @3G	24.6@6G	5GHz-45GHz	0-127dB/0.25dB
4x8-32	24.4dB @3G	30@6G	5GHz-45GHz	0-127dB/0.25dB
4x12-48	26.2dB @3G	31@6G	5GHz-45GHz	0-127dB/0.25dB
4x16-64	28dB @3G	34@6G	5GHz-45GHz	0-127dB/0.25dB
6x6-36	24.6dB @3G	31.8@6G	5GHz-45GHz	0-127dB/0.25dB
8x6-48	26.3dB @3G	33.6@6G	5GHz-45GHz	0-127dB/0.25dB
8x8-64	28dB @3G	35.4@6G	5GHz-45GHz	0-127dB/0.25dB
9x9-81	29.2dB @3G	39.8@6G	600MHz-6GHz	0-127dB/0.25dB
16x8-128	31.6dB @3G	39.4@6G	600MHz-6GHz	0-127dB/0.25dB
16x16-258	35.2dB @3G	43.4@6G	600MHz-6GHz	0-127dB/0.25dB
18x18-324	35.4dB @3G	41.4@6G	600MHz-6GHz	0-95dB/0.25dB
24x18-432	37dB @3G	43.6@6G	600MHz-6GHz	0-95dB/0.25dB
24x24-576	38.6dB @3G	45.8@6G	600MHz-6GHz	0-95dB/0.25dB
32x8-256	34.9dB @3G	42.6@6G	600MHz-6GHz	0-95dB/0.25dB
32x16-512	38.5dB @3G	46.6@6G	600MHz-6GHz	0-95dB/0.25dB
32x32-1024	41.8dB @3G	49.8@6G	600MHz-6GHz	0-95dB/0.25dB
64x8-512	38.5dB @3G	46.6@6G	600MHz-6GHz	0-95dB/0.25dB
64x16-1024	41.8dB @3G	49.8@6G	600MHz-6GHz	0-95dB/0.25dB
64x32-2048	45.4dB @3G	53.8@6G	600MHz-6GHz	0-95dB/0.25dB
64x64-4096	49dB @3G	57.8@6G	600MHz-6GHz	0-95dB/0.25dB
128x64-8192	52.6dB @3G	61.8dB @6G	600MHz-6GHz	0-95dB/0.25dB
128x128-13684	55.8dB @3G	64.6@6G	600MHz-6GHz	0-95dB/0.25dB

Programmable Attenuators

Partial Matrix Systems



Radio Rack 8x2-8



Radio Rack 16x3-16



Radio Rack 18x6-18



Radio Rack 24x6-24

Features :

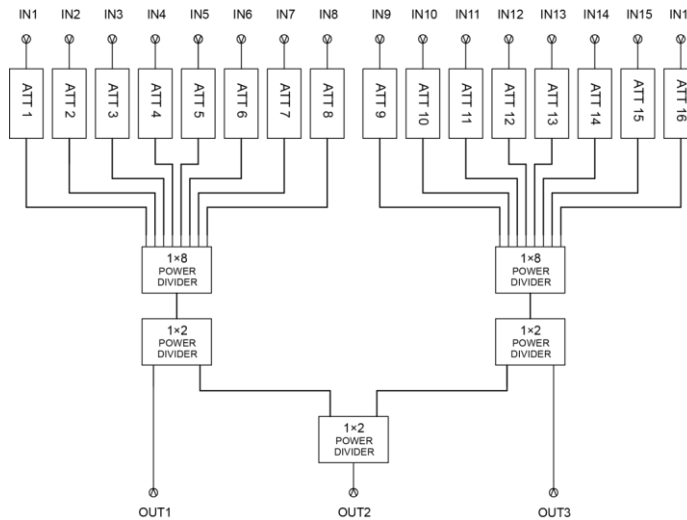
Partial Matrix Programmable Attenuators System is suitable for lab testing by controlling independent bidirectional RF channels. Users can easily simulate path loss on each channel or simulate mobility scenarios between the sectors with usage of power combiners. The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/WiMAX.

Specification :

Frequency Range	10MHz-6GHz
Impedance	50 Ω
Attenuation	0-127 dB, 1dB / 0.5dB / 0.25dB Step
VSWR (Avg.)	≤ 1.45
Attenuation Accuracy	0-31 $\leq \pm 0.25$ dB; 32-100 $\leq \pm 0.5$ dB
Insertion Loss	0.7GHz ≤ 5.3 dB, 3GHz ≤ 6.8 dB, 6GHz ≤ 9.8 dB
Input Power (Avg.)	+33 dBm
Power Supply	100 - 240 V _{AC} 50 - 60 Hz
Control Interface	RS - 232 and Ethernet
RF Input Connector	SMA(F)
Temperature Range	-10-50°C (14-122 °F)

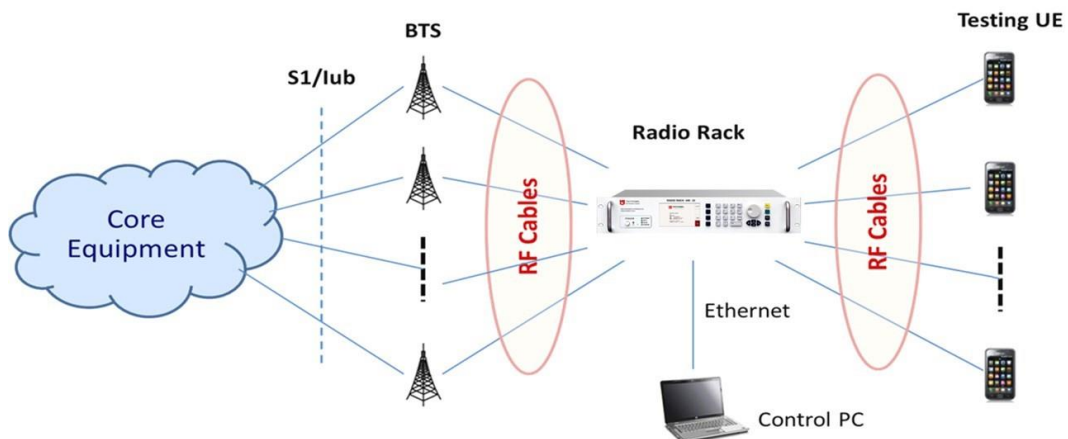
Programmable Attenuators

System Diagram:



Radio Rack 16x3-16

Partial Matrix Series products					
Model	Dimension	Frequency	Insertion Loss		Attenuation
8x2-8	210 x 76 x 190 mm	5GHz-45GHz	12.3dB @3G	17.2dB @6G	0-127dB/0.25dB
15x5-15	19"Rack , 2U	5GHz-45GHz	10.9dB @3G	17.3dB @6G	0-127dB/0.25dB
16x2-16	19"Rack , 2U	5GHz-45GHz	15.9dB @3G	22.6dB @6G	0-127dB/0.25dB
16x3-16	19"Rack , 2U	5GHz-45GHz	19.5dB @3G	26.6dB @6G	0-127dB/0.25dB
16x4-16	19"Rack , 1U	5GHz-45GHz	12.3dB @3G	17.2dB @6G	0-127dB/0.25dB
18x6-18	19"Rack , 2U	5GHz-45GHz	10.9dB @3G	17.3dB @6G	0-127dB/0.25dB
24x6-24	19"Rack , 2U	5GHz-45GHz	12.3dB @3G	17.2dB @6G	0-127dB/0.25dB



Programmable Attenuators

Multi Ports Systems



Radio Rack 9 Ports

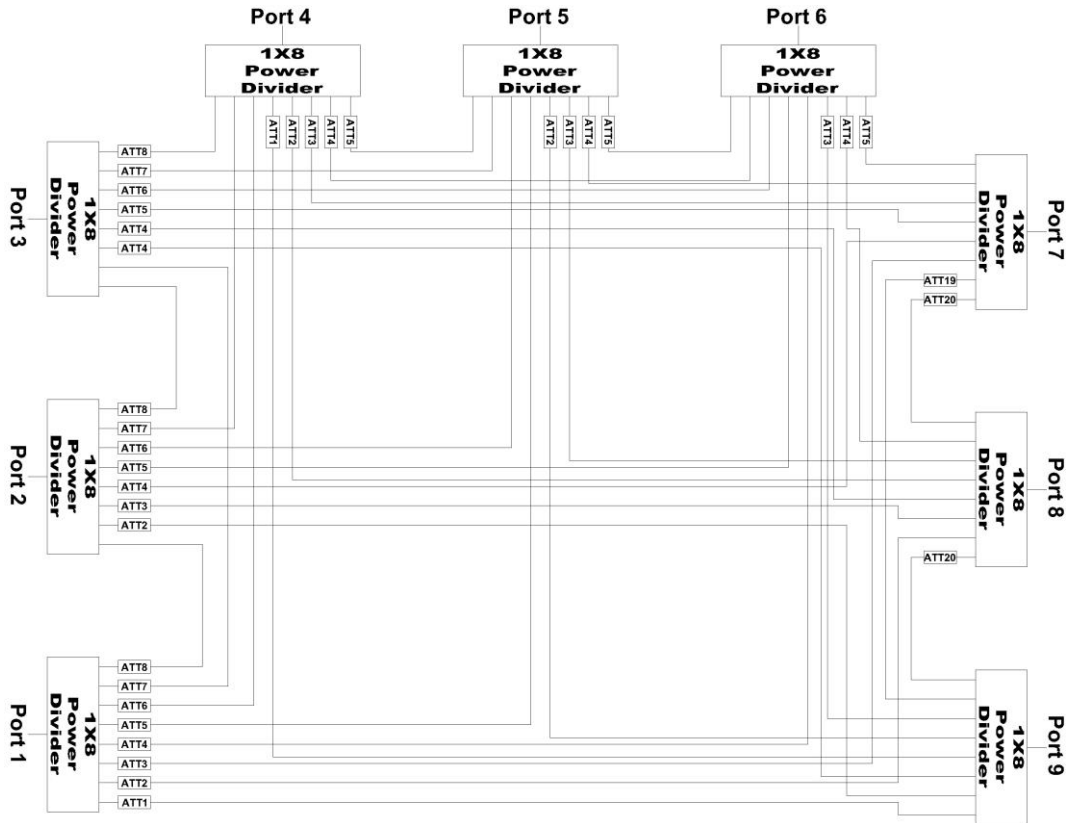
Description :

Radio Rack 9 Ports Matrix is a 36 independent attenuators with all available connections to all ports.

Specification	Description:
Height	3U
Frequency Range	600 MHz - 4 GHz
Impedance	50 Ω
Attenuation Range	0 - 110 dB
Attenuation Step	1 dB / 0.5 dB
Attenuation Accuracy	0 - 31 $\leq \pm 0.3$ dB; 32 - 110 $\leq \pm 0.5$ dB
VSWR (Avg.)	1.4
Insertion Loss	≤ 29 dB
Input Power (Avg.)	+33 dBm
Power Supply	100 - 240 V _{AC} 50 - 60 Hz
Control Interface	RS - 232 and RJ45
Display	Color 4.3 - inch HD Touch Display
RF Input Connector	N (F)
Temperature Range	-10-50°C (14-122 °F)

Programmable Attenuators

Multi Ports Systems



Radio Rack 9 Ports

Model	Insertion Loss		Frequency	Attenuation
9 Ports	28dB @3G	35.4dB @6G	5GHz-45GHz	0-127dB/0.25dB
19 Ports	35.4dB @3G	38.4@6G	5GHz-45GHz	0-127dB/0.25dB
24 Ports	38.6dB @3G	45.8@6G	5GHz-45GHz	0-127dB/0.25dB

Radio Switch System

1PNT



Radio Switch 1P4T Tabletop



Radio Switch 1P64T

Features :

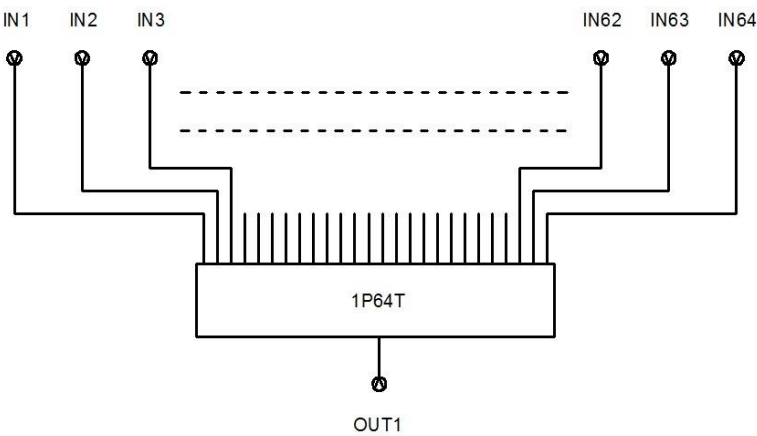
Radio Switch 1PNT is a RF switch system. Signals from the input to any output port can be controlled on the switches to turn to the specific path. Lab staff and testing engineers can interconnect the BTS ports to the testing handsets easily and flexibly through remote control without any hassle of reconfiguration or reconnection of the physical RF cables.

The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/ WiMAX.

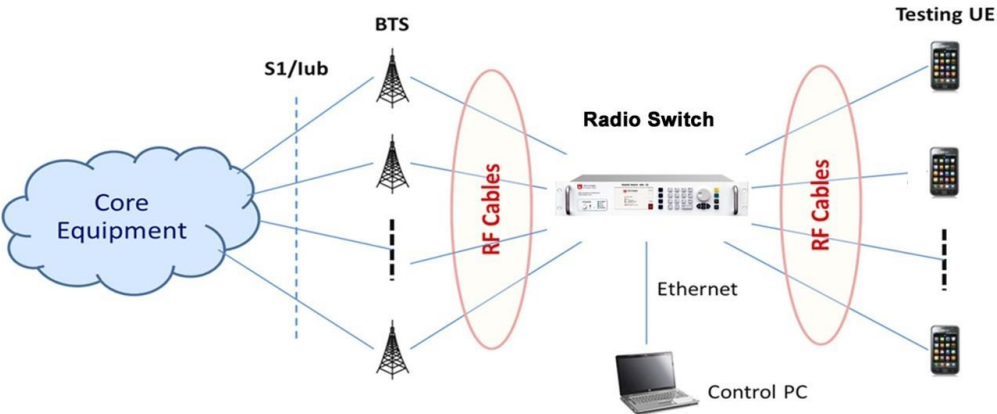
Specification	
Frequency Range	10MHz-6GHz / 5Ghz-45GHz
Impedance	50 Ω
Isolation	Max $\geq$ 70 dB
VSWR	$\leq$ 1.3 @ all Ports
Insertion Loss	$\leq$ 1.5dB @ 6GHz
Switching Speed	15ms typical
Input Power (Ave.)	+37 dBm
Life	2,000,000 cycles per position
Power Supply	100 - 240 V _{AC} 50 - 60 Hz
Control Interface	RS - 232 and RJ45
RF Input Connector	N (F)
Temperature Range	-20-55°C (-4-131 °F)

Radio Switch System

1PNT Diagram:



1PNT Series products				
Model	Dimension	Frequency	Insertion Loss	
8x2-8	210 x 76 x 190 mm	10MHz-6GHz / 5Ghz-45GHz	12.3dB @3G	17.2dB @6G
15x5-15	19"Rack , 2U	10MHz-6GHz / 5Ghz-45GHz	10.9dB @3G	17.3@6G
16x2-16	19"Rack , 2U	10MHz-6GHz / 5Ghz-45GHz	15.9dB @3G	22.6@6G
16x3-16	19"Rack , 2U	10MHz-6GHz / 5Ghz-45GHz	19.5dB @3G	26.6@6G
16x4-16	19"Rack , 1U	10MHz-6GHz / 5Ghz-45GHz	12.3dB @3G	17.2@6G
18x6-18	19"Rack , 2U	10MHz-6GHz / 5Ghz-45GHz	10.9dB @3G	17.3@6G
24x6-24	19"Rack , 2U	10MHz-6GHz / 5Ghz-45GHz	12.3dB @3G	17.2@6G



Radio Switch System

Matrix Systems



Radio Switch 4x16



Radio Switch 32x16-512

Features :

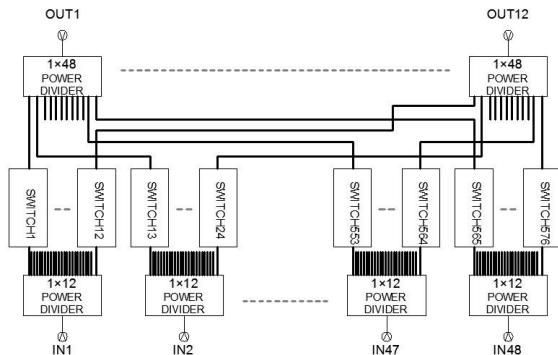
Matrix Radio Switch is a full routing matrix. Signals from any input to any output port can be independently controlled on the switches to turn on or off that specific path. Lab staff and testing engineers can interconnect the BTS ports to the testing handsets easily and flexibly through remote control without any hassle of reconfiguration or reconnection of the physical RF cables.

The instrument supports all the major wireless technologies including CDMA/EVDO/GSM/UMTS/HSPA/LTE/ WiMAX.

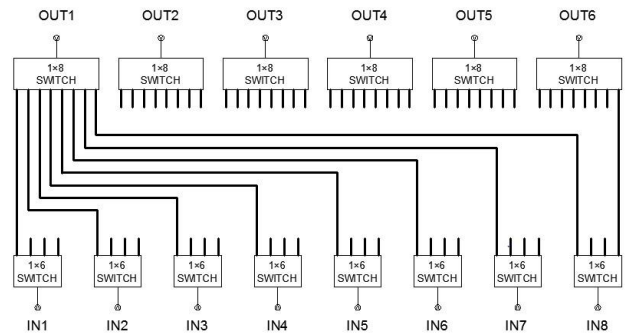
Specification	
Frequency Range	600 MHz - 6 GHz
Switch Channel Number	4x16-64
Impedance	50 Ω
Isolation	Max $\geq$ 95 dB
VSWR	≤ 1.4
Insertion Loss	≤ 17 dB
Switching Speed	5ms typical
Input Power (Ave.)	+33 dBm
Power Supply	100 - 240 V _{AC} 50 - 60 Hz
Control Interface	RS - 232 and RJ45
RF Input Connector	N (F)
Temperature Range	-20-55°C (-4-131 °F)

Radio Switch System

Matrix Systems diagram :



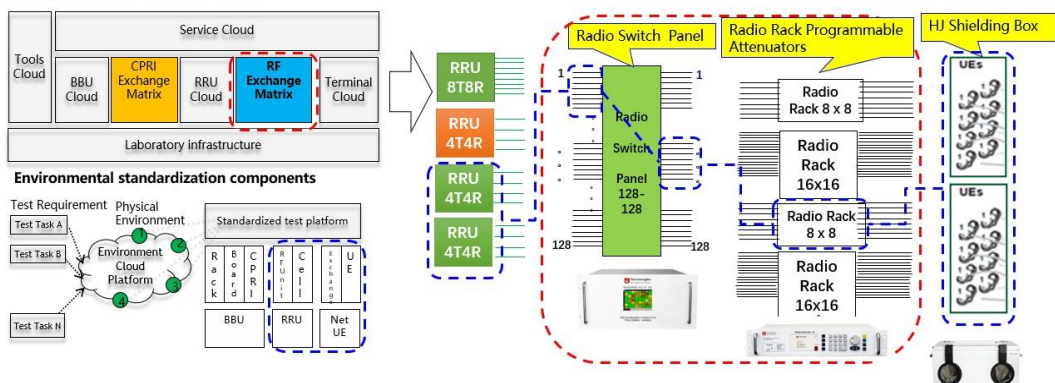
Non-Blocking Radio Switch 48x12-576



Blocking Radio Switch 8x6-48

Matrix Series products				
Model	Non-Blocking Insertion Loss		Blocking Insertion Loss	
2x32-64	24.1dB @3G	27dB @6G	14dB @3G	20dB @6G
4x4-16	17dB @3G	17.8dB @6G	8dB @3G	14.5dB @6G
4x16-64	24.2dB @3G	27.2dB @6G	14dB @3G	20dB @6G
4x32-128	27.5dB @3G	30.4dB @6G	15.5dB @3G	22dB @6G
8x6-48	22.5dB @3G	26.8dB @6G	9.5dB @3G	16.5dB @6G
18x6-18	26.2dB @3G	29.8dB @6G	15.5dB @3G	22dB @6G
32x16-512	34.7dB @3G	39.8dB @6G	18.5dB @3G	26dB @6G
32x32-1024	38dB @3G	43dB @6G	20dB @3G	28dB @6G
48x12-576	34.9dB @3G	40.6dB @6G	21dB @3G	28dB @6G
64x32-2048	41.6dB @3G	47dB @6G	21.5dB @3G	30dB @6G
128x128-16384	52dB @3G	57.8dB @6G	26dB @3G	36dB @6G

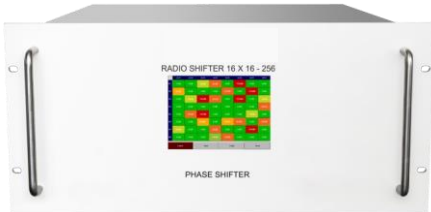
Lab Environment Cloud Architecture



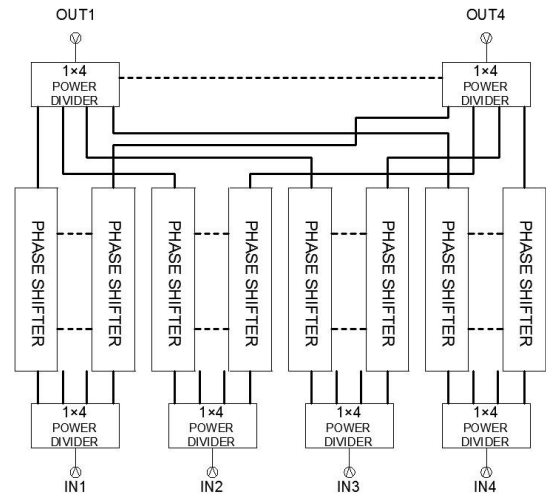
Radio Switch System



Radio Shifter 16 x 4 - 64



Radio Shifter 16 x 16 - 256



Radio Shifter 4x4-16

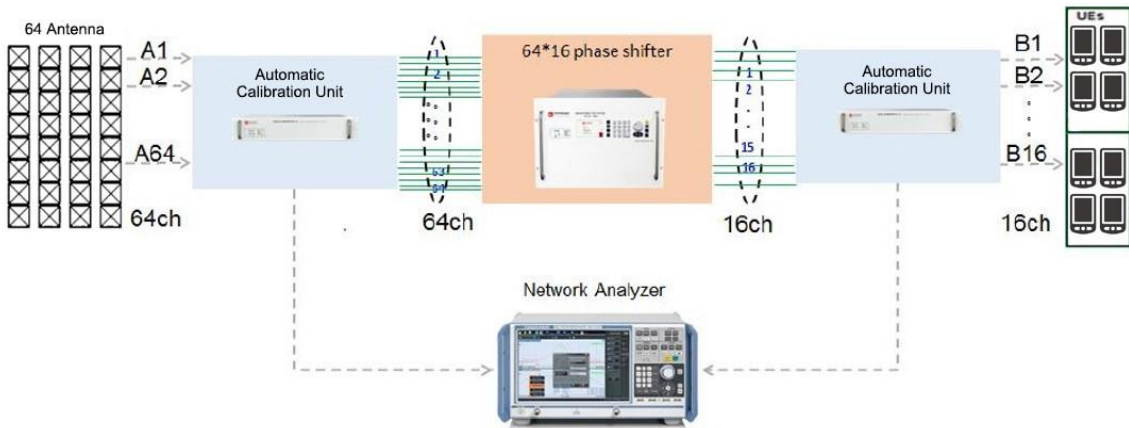
Features :

Radio Shifters are multi - channel digital phase shifters with high phase accuracy, low - phase - loss. Users may adjust phase shift with panel and LAN Ethernet ports on each channel. Radio Shifters are mainly used in the communications antenna and phase - controlled radar and other communication equipment.

Specification	Discription
Frequency Range	2.3 GHz - 3.8 GHz / 3 GHz - 6 GHz
Impedance	50 Ω
Phase Shift Range	360 degree, 5.625 degree per step
Phase Shift Accuracy	$\pm 1.5\%$ degree, RMS ± 1 degree
VSWR (Avg.)	1.4
Insertion Loss	<38 dB
Insertion Loss Accuracy	± 1.5 dB
Input Power (Avg.)	+33 dBm
Power Supply	100 - 240 V _{AC} 50 - 60 Hz
Control Interface	RS - 232 and Ethernet
RF Connector	N (F)
Temperature Range	-10-50°C (14-122 °F)

Radio Switch System

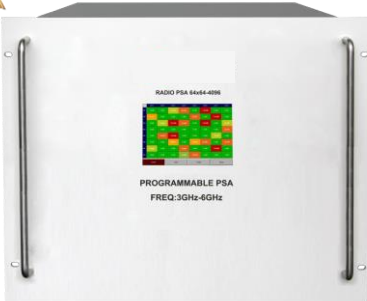
Application:



Radio Shifter Systems products	Description:
Radio Shifter 4 - 220	4 independent phase shifters
Radio Shifter 8 - 220	8 independent phase shifters
Radio Shifter 2 x 2 - 4	2 x 2 matrix system containing 4 independent phase shifters
Radio Shifter 4 x 4 - 16	4 x 4 matrix system containing 16 independent phase shifters
Radio Shifter 4 x 8 - 32	4 x 8 matrix system containing 32 independent phase shifters
Radio Shifter 4 x 12 - 48	4 x 12 matrix system containing 48 independent phase shifters
Radio Shifter 6 x 6 - 36	6 x 6 matrix system containing 36 independent phase shifters
Radio Shifter 8 x 6 - 48	8 x 6 matrix system containing 48 independent phase shifters
Radio Shifter 8 x 8 - 64	8 x 8 matrix system containing 64 independent phase shifters
Radio Shifter 9 x 9 - 81	9 x 9 matrix system containing 81 independent phase shifters
Radio Shifter 16 x 4 - 64	16 x 4 matrix system containing 64 independent phase shifters
Radio Shifter 16 x 16 - 256	16 x 16 matrix system containing 256 independent phase shifters
Radio Shifter 32 x 8 - 256	32 x 8 matrix system containing 256 independent phase shifters
Radio Shifter 64 x 16 - 1024	64 x 16 matrix system containing 1024 independent phase shifters

Programmable PSA System

Phase Shifter Attenuator



Radio PSA 64x64-4096

Software Features :

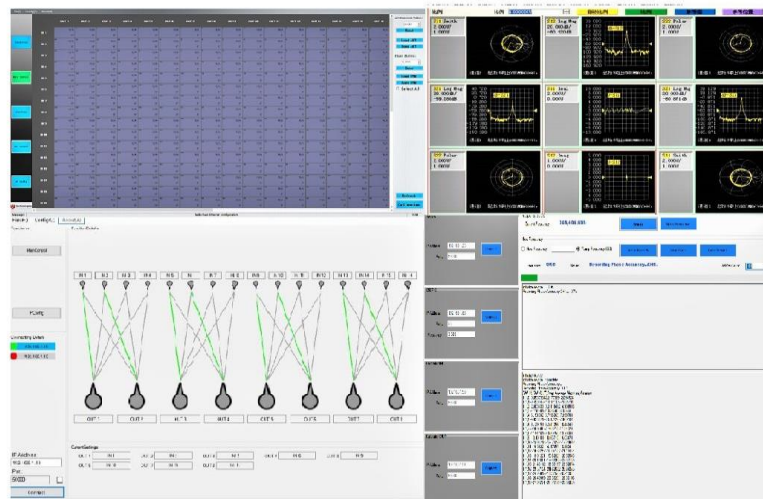
- 1.GUI Interface** Easy to show all channels' phase and attenuation changes.
- 2.File load/save** With CSV files, all data and settings can be restored and recalled.
- 3.Dynamic Function** With BTS mapping and car routing, all phase settings and attenuation settings can be set.
- 4.Log monitor** All operations can be saved in files as logs.
- 5.Auto Calibrating** Simply connected with the Automatic calibrating system, all calibrating can be set automatically.

Specification	Description:	
Dimension	19', 16U 19', 16U	
Frequency Range	1.7 GHz - 2.9 GHz	3GHz - 6GHz
Phase Shift Range	360 degree, 2.8125/1.40625 degree per step (Optional 0.5 degree per step with 5 dB more insertion loss)	360 degree, 5.625 degree per step (Optional 2.8125/1.40625 degree per step with 4 dB more insertion loss)
Phase Shift Accuracy	± 1.5 degree @1.7GHz– 2.6GHz ± 2.4 degree @2.6GHz– 2.9GHz (± 0.5 degree @1.7GHz–2.9GHz Optional)	± 2.8125 degree @3.5GHz ± 7 degree @4.5GHz (Optional ± 2.8125 degree @4.5GHz) (Optional ± 1.40625 degree @4.5GHz)
Attenuation Range	0~95dB, 0.25 dB Step	0~95dB, 0.25 dB Step
Attenuation Accuracy	± 0.15 dB @0-31dB ± 0.25 dB @32-63dB $\pm 1.5\%$ dB @63-95dB	± 0.15 dB @0-31dB ± 0.25 dB @32-63dB $\pm 1.5\%$ dB @63-95dB
Insertion Loss	≤ 56 dB @ 2.6GHz	≤ 60 dB @ 5.8GHz
VSWR (Avg.)	<1.6	
Impedance	50 Ω	
Input Power (Avg.)	+ 33dBm	
Power Supply	100 - 240 V _{AC} 50 - 60 Hz	
Response time	10ms	
Control Interface	RS - 232, Ethernet and USB	
Display	Color 4.3 - inch HD Touch Display	
RF Input Connector	SMA(F)	
Temperature Range	-10-50°C (14-122 °F)	

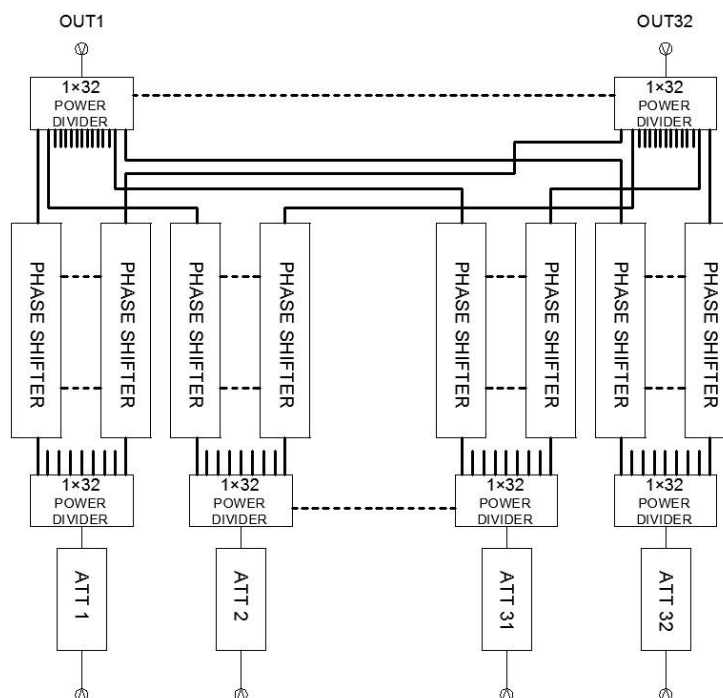
Programmable PSA System

Phase Shifter Attenuator

Software Interface :



Software Diagram :

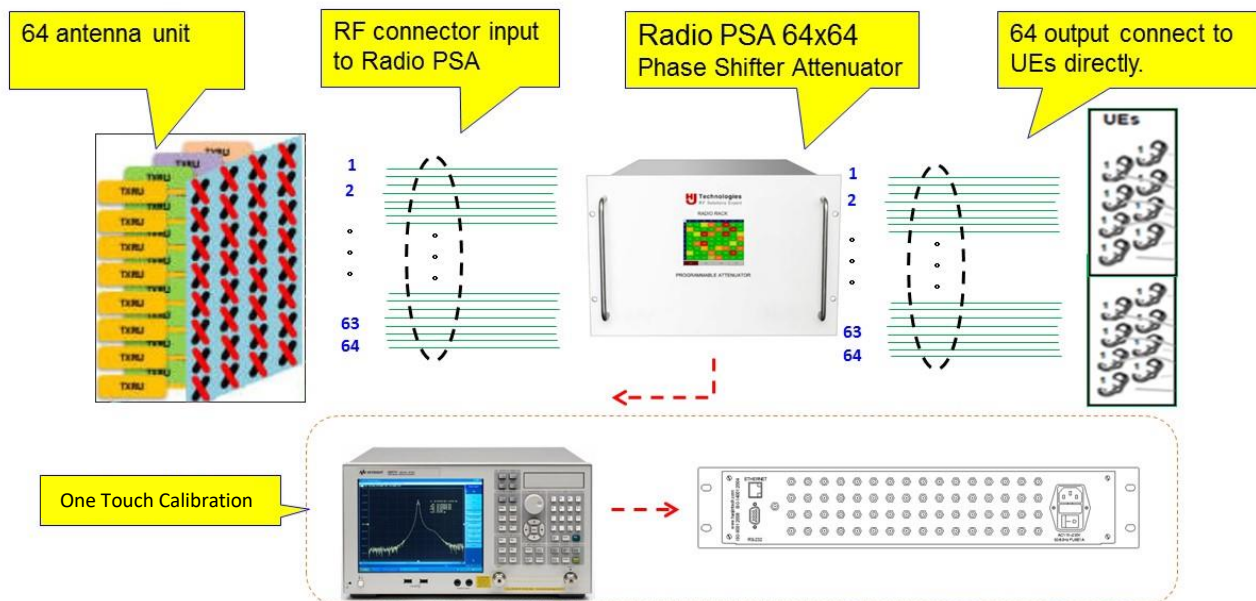


Radio PSA 64x64-4096

Programmable PSA System

Phase Shifter Attenuator

Application :



Radio PSA Series products					
Model	Freq	Accuracy	Model	Freq	Accuracy
16x4-64	1.7 GHz - 2.7 GHz	1.40625°±1.4°	32x32-1024	3GHz - 6GHz	5.625°±2.8°
16x4-64	1.7 GHz - 2.7 GHz	0.5°±0.5°	32x32-1024	3GHz - 6GHz	1.40625°±1.4°
16x4-64	3GHz - 6GHz	5.625°±5.6°	64x16-1024	1.7 GHz - 2.7 GHz	1.40625°±1.4°
16x4-64	3GHz - 6GHz	5.625°±2.8°	64x16-1024	1.7 GHz - 2.7 GHz	0.5°±0.5°
16x4-64	3GHz - 6GHz	1.40625°±1.4°	64x16-1024	3GHz - 6GHz	5.625°±5.6°
32x16	1.7 GHz - 2.7 GHz	1.40625°±1.4°	64x16-1024	3GHz - 6GHz	5.625°±2.8°
32x16-512	1.7 GHz - 2.7 GHz	0.5°±0.5°	64x16-1024	3GHz - 6GHz	1.40625°±1.4°
32x16-512	3GHz - 6GHz	5.625°±5.6°	64x32-2048	1.7 GHz - 2.7 GHz	1.40625°±1.4°
32x16-512	3GHz - 6GHz	5.625°±2.8°	64x32-2048	1.7 GHz - 2.7 GHz	0.5°±0.5°
32x16-512	3GHz - 6GHz	1.40625°±1.4°	64x32-2048	3GHz - 6GHz	5.625°±5.6°
32x32-1024	1.7 GHz - 2.7 GHz	1.40625°±1.4°	64x32-2048	3GHz - 6GHz	5.625°±2.8°
32x32-1024	1.7 GHz - 2.7 GHz	0.5°±0.5°	64x32-2048	3GHz - 6GHz	1.40625°±1.4°
32x32-1024	3GHz - 6GHz	5.625°±5.6°	Other needs please contact sales		

Optical Switch System

Independent Path

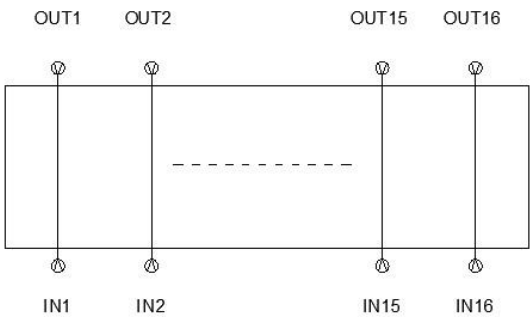


Specification	
Wavelength Range	1260 - 1620nm
Return Loss	SM $\geq$ 50 dB
Crosstalk	SM $\geq$ 55 dB
PDL	$\leq$ 0.05dB
WDL	$\leq$ 0.25dB
TDL	$\leq$ 0.25dB
Repeatability	$\leq \pm 0.02$ dB
Power Supply	3/5V
Lifetime	$\geq 10^7$
Switch Time	$\leq$ 5ms
Transmission Power	$\leq$ 500mw
Temperature	-20-55°C (-4-131 °F)

Features :

- Low Insertion Loss
- Wide Wavelength Range
- Low Crosstalk
- High Stability, High Reliability
- Epoxy-free on Optical Path
- Latching and Non-latching

System Diagram :



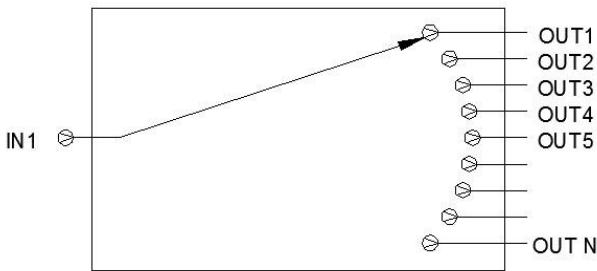
Independent Path Series products	
Model	Insertion Loss (dB)
4IN4OUT	0.7
8IN8OUT	0.7
16IN16OUT	0.7
24IN24OUT	0.7
32IN32OUT	0.7
64IN64OUT	0.7

Optical Switch System

1PNT

Specification	
Wavelength Range	1260 - 1620nm
Return Loss	SM ≥ 50 dB
Crosstalk	SM ≥ 55 dB
PDL	≤ 0.05dB
WDL	≤ 0.25dB
TDL	≤ 0.25dB
Repeatability	≤ ±0.02dB
Power Supply	3/5V
Lifetime	≥ 10 ⁷
Switch Time	≤ 5ms
Transmission Power	≤ 500mw
Temperature	-20-55°C (-4-131 °F)

System Diagram :

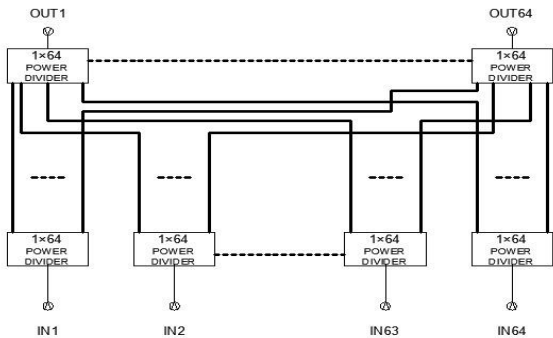


1PNT Series products	
Model	Insertion Loss (dB)
1P2T	0.7
1P4T	0.7
1P8T	0.8
1P16T	1.5
1P64T	1.6
1P128T	2.4

Matrix

Specification	
Wavelength Range	1260 - 1620nm
Return Loss	SM ≥ 50 dB
Crosstalk	SM ≥ 55 dB
PDL	≤ 0.05dB
WDL	≤ 0.25dB
TDL	≤ 0.25dB
Repeatability	≤ ±0.02dB
Power Supply	3/5V
Lifetime	>10 ⁷
Switch Time	<5ms
Transmission Power	≤ 500mw
Temperature	-20-55°C (-4-131 °F)

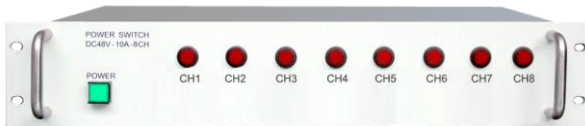
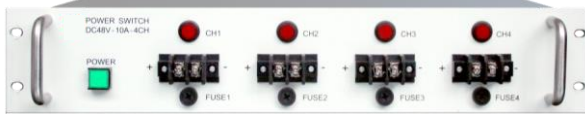
System Diagram :



Matrix Series products	
Model	Insertion Loss (dB)
4x4	1.6
4x8	1.6
8x6	1.6
16x16	2.1
32x32	2.1
64x64	2.1

Power Switch System

DC Series



Model DC48V - 20A - 4CH	
Dimensions	2U
Input Connector	M10 - 50A
Rated Input Voltage	36 - 55V
Max Input Current	80A
Rated Output Voltage	36 - 55V
Max Output Current	20A
Output Connector	M8 - 30A
Insulation Strength	200MΩ
Grounding Port	Positive Electrode
Max Grounding Resistance	0.1Ω
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Features :

Power switch box is mainly used for power supply access, integration and remote control. We provide 12V, 24V, 48V DC power switch. And we have bus access mode and multi access mode to meet most of the power supply requirements. Our switch box can be controlled by applications through RS232, or Ethernet, which can be a simple and efficient remote control from the entire cabinet of the power

Model DC12V - 12A - 12CH	
Dimensions	2U
Input Connector	M12 - 150A
Rated Input Voltage	0 - 24V
Max Input Current	144A
Rated Output Voltage	0 - 24V
Max Output Current	12A
Output Connector	F87-9-7.62/F77-5-7.62
Insulation Strength	200MΩ
Grounding Port	Negative Electrode
Max Grounding Resistance	0.1Ω
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Power Switch System

DC Series

Model DC48V - 10A - 8CH	
Dimensions	2U
Input Connector	M10 - 80A
Rated Input Voltage	36 - 55V
Max Input Current	80A
Rated Output Voltage	36 - 55V
Max Output Current	10A
Output Connector	M8 - 30A
Insulation Strength	200MΩ
Grounding Port	Positive Electrode
Max Grounding Resistance	0.1Ω
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Model DC48V - 40A - 2CH	
Dimensions	2U
Input Connector	M10 - 80A
Rated Input Voltage	36 - 55V
Max Input Current	80A
Rated Output Voltage	36 - 55V
Max Output Current	40A
Output Connector	M8 - 40A
Insulation Strength	200MΩ
Grounding Port	Positive Electrode
Max Grounding Resistance	0.1Ω
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Model DC48V - 20A - 8CH	
Dimensions	2U
Input Connector	M12 - 160A
Rated Input Voltage	36 - 55V
Max Input Current	160A
Rated Output Voltage	36 - 55V
Max Output Current	20A
Output Connector	M8 - 30A
Insulation Strength	200MΩ
Grounding Port	Positive Electrode
Max Grounding Resistance	0.1Ω
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Power Switch System

AC Series



Features :

Power switch box is mainly used for power supply access, integration and remote control. We provide 220V access to the power switch box . And we have bus access mode and multi access mode to meet most of the power supply requirements. Our switch box can be controlled by applications through RS232, or Ethernet, which can be a simple and efficient remote control from the entire cabinet of the power supply.

Model AC220V - 12A - 8CH

Dimensions	1U
Input Connector	IEC - C14
Rated Input Voltage	100 - 240V
Input Freq.	50 - 60 Hz
Input Voltage	±10% rated
Rated Input Power	3000W
Input Current	12A
Max Output Current	12A
Rated Output Voltage	200 - 240V
Rated Output Power	500W / Port
Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	5 - 95%

Model AC220V - 16A - 8CH

Dimensions	1U
output Connector	(8) IEC - 320 C13
Acceptable Input Voltage	200 - 240VAC
Input Freq.	50 - 60 Hz
Rated Input Power	3000W
Max Input Current	20A
Regulatory Derated Input Current	16A
Max Total Current Draw	16A
Rated Output Voltage	200 - 240VAC
Rated Output Power	3680VA
Operating Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	0 - 95%

Model AC220V - 16A - 8CH

Dimensions	1U
output Connector	(8) IEC - 320 C13
Acceptable Input Voltage	200 - 240VAC
Input Freq.	50 - 60 Hz
Rated Input Power	3000W
Max Input Current	20A
Regulatory Derated Input Current	16A
Max Total Current Draw	16A
Rated Output Voltage	200 - 240VAC
Rated Output Power	3680VA
Operating Temperature	-5-45°C (23-113 °F)
Humidity (non - condensing)	0 - 95%

Shielding Boxes

up to 6 GHz > 80 dB

Features :

- ◆ Wireless Communication Test, EMI Test, Coupling Test, RF Function Test
- ◆ High quality, cost effective and fast delivery
- ◆ Customizable

STP - CD01

	Specification: Operation Mode: Manual Material: Aluminum Size: 160 x 220 x 75(mm) Ports: USB3.0 x 1, SMA - SMA x 2 Options: Visual window x 1, Temperature Range: -10-50°C (14-122 °F)	Shielding Effectiveness Typical: ≥80dB@0.6 to 6 GHz Test Specification:92dB@0.6 to 1 GHz 88dB@1 to 2 GHz 85dB@2 to 4 GHz 80dB@4 to 6 GHz
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STP - CD03

	Specification: Operation Mode: Manual Material: Aluminum Size: 190 x 200 x 140(mm) Ports: USB3.0 x 2, 4 N - SMA x 4 Temperature Range: -10-50°C (14-122 °F)	Shielding Effectiveness Typical: ≥80dB@0.6 to 6 GHz Test Specification:92dB@0.6 to 1 GHz 88dB@1 to 2 GHz 85dB@2 to 4 GHz 80dB@4 to 6 GHz
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STP - CD05

	Specification: Operation Mode: Manual Material: Aluminum Size: 250 x 300 x 170(mm) Ports: USB3.0 x 2, N - SMA x 4 Temperature Range: -10-50°C (14-122 °F)	Shielding Effectiveness Typical: ≥80dB@0.6 to 6 GHz Test Specification:92dB@0.6 to 1 GHz 88dB@1 to 2 GHz 85dB@2 to 4 GHz 80dB@4 to 6 GHz
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Shielding Boxes

STP - CD07



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 460 x 305 x 245(mm)

Ports: USB3.0 x 4, SMA - SMA x 4, N - N x 2

Options: AC power strip x 1

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: $\geq 80\text{dB}@0.6$ to 6 GHz

Test Specification: $92\text{dB}@0.6$ to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

STP - CD08



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 457 x 305 x 240(mm)

Ports: USB3.0 x 4, SMA - SMA x 4, N - N x 2

Options: AC power strip x 1,

Visual window x 1, Glove x 2

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: $\geq 80\text{dB}@0.6$ to 6 GHz

Test Specification: $92\text{dB}@0.6$ to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

STP - CD10



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 436 x 280 x 350(mm)

Ports: USB3.0 x 16, SMA - SMA x 2,

Options: Fan x 1

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: $\geq 80\text{dB}@0.6$ to 6 GHz

Test Specification: $92\text{dB}@0.6$ to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

Shielding Boxes

STP - CD11



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 435 x 300 x 345(mm)

Ports: USB3.0 x 6, N - SMA x 12

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: ≥80dB@0.6 to 6 GHz

Test Specification:92dB@0.6 to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

STP - CD12



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 436 x 220 x 350(mm)

Ports: USB3.0 x 2, N - SMA x 4

Options: AC power strip x 1, Visual window x 1,

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: ≥80dB@0.6 to 6 GHz

Test Specification:92dB@0.6 to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

STP - CD12B



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 436 x 220 x 350(mm)

Ports: USB3.0 x 4, N - SMA x 4

Options: AC power strip x 1, Visual window x 1,
diamond white ambient lighting

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: ≥80dB@0.6 to 6 GHz

Test Specification:92dB@0.6 to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

Shielding Boxes

STP - CD30



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 436 x 280 x 350(mm)

Ports: USB3.0 x 4, N - SMA x 4,

USB charging port x 30

Options: AC power strip x 1, Visual window x 1, Fan x 2, Diamond white ambient lighting, Cellphone holder x 30

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: ≥80dB@0.6 to 6 GHz

Test Specification:92dB@0.6 to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

STP - CD22



Specification:

Operation Mode: Manual

Material: Aluminum

Size: 800 x 600 x 2000(mm)

Ports: 64 USB, 16 N - SMA

Options: AC power strip x 8, Visual window x 1, Diamond white ambient lighting

Temperature Range: -10-50°C (14-122 °F)

Shielding Effectiveness

Typical: ≥80dB@0.6 to 6 GHz

Test Specification:92dB@0.6 to 1 GHz

88dB@1 to 2 GHz

85dB@2 to 4 GHz

80dB@4 to 6 GHz

Model STA2

BNC, N, SMA or TNC



Specification :

Nominal Impedance: 50Ω

Power Rating: 2 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N, SMA or TNC

Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	6G	8G	12G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.5	±0.5	±0.5
21 - 30 dB	±0.5	±0.5	±0.5
31 - 40 dB	±0.7	±0.7	±0.7

MAXIMUM VSWR			
Model	6G	8G	12G
VSWR	1.3	1.3	1.35

Model STA5

BNC, N, SMA or TNC



Specification :

Nominal Impedance: 50Ω

Power Rating: 5 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N, SMA or TNC

Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	8G	12G	18G
1 - 10 dB	±0.5	±0.6	±0.6
11 - 20 dB	±0.6	±0.7	±0.8
21 - 30 dB	±0.8	±0.9	±1.0

MAXIMUM VSWR			
Model	8G	12G	18G
VSWR	1.25	1.25	1.3

Model STA10

BNC, N, SMA or TNC



Specification :

Nominal Impedance: 50Ω

Power Rating: 10 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N, SMA or TNC

Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	6G	8G	12G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.5	±0.5	±0.5
21 - 30 dB	±0.5	±0.5	±0.5
31 - 40 dB	±0.7	±0.7	±0.7

MAXIMUM VSWR			
Model	6G	8G	12G
VSWR	1.3	1.3	1.35

Model STA25

BNC, N, SMA or TNC



Specification :

Nominal Impedance: 50Ω

Power Rating: 25 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N, SMA or TNC

Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	6G	8G	12G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.5	±0.5	±0.5
21 - 30 dB	±0.5	±0.5	±0.5
31 - 40 dB	±0.7	±0.7	±0.7

MAXIMUM VSWR			
Model	6G	8G	12G
VSWR	1.3	1.3	1.35

Model STA30

BNC, N, SMA, TNC or 7/16



Model STA50

BNC, N, SMA, TNC or 7/16



Specification :

Nominal Impedance: 50Ω
Power Rating: 30 watts average
Temperature Range: -55-125°C (-67-257 °F)
Connectors: BNC, N, SMA, TNC or 7/16
Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	3G	4G	6G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.7	±0.7	±0.7
21 - 30 dB	±1.0	±1.0	±1.0
31 - 40 dB	±1.2	±1.2	±1.2

MAXIMUM VSWR			
Model	3G	4G	6G
VSWR	1.2	1.25	1.35

Specification :

Nominal Impedance: 50Ω
Power Rating: 50 watts average
Temperature Range: -55-125°C (-67-257 °F)
Connectors: BNC, N, SMA, TNC or 7/16
Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	2.5G	4G	6G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.7	±0.7	±0.7
21 - 30 dB	±1.0	±1.0	±1.0
31 - 40 dB	±1.2	±1.2	±1.2

MAXIMUM VSWR			
Model	2.5G	4G	6G
VSWR	1.2	1.25	1.35

Model STA60**BNC, N, SMA, TNC or 7/16****Specification :****Nominal Impedance:** 50Ω**Power Rating:** 60 watts average**Temperature Range:** -55-125°C (-67-257 °F)**Connectors:** BNC, N, SMA, TNC or 7/16**Construction:** Stainless steel / aluminum alloy body

MAXIMUM DEVIATION		
Nominal ATT	4G	6G
1 - 10 dB	±0.5	±0.5
11 - 20 dB	±0.7	±0.7
21 - 30 dB	±1.0	±1.0
31 - 40 dB	±1.2	±1.2

MAXIMUM VSWR		
Model	4G	6G
VSWR	1.25	1.35

Model STA100**BNC, N, TNC or 7/16****Specification :****Nominal Impedance:** 50Ω**Power Rating:** 100 watts average**Temperature Range:** -55-125°C (-67-257 °F)**Connectors:** BNC, N, TNC or 7/16**Construction:** Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	3G	4G	12G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.7	±0.7	±0.7
21 - 30 dB	±1.0	±1.0	±1.0
31 - 40 dB	±1.2	±1.2	±1.2

MAXIMUM VSWR			
Model	3G	4G	12G
VSWR	1.2	1.25	1.35

Model STA150

BNC, N or 7/16



Specification :

Nominal Impedance: 50Ω

Power Rating: 150 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N or 7/16

Construction: Stainless steel / aluminum alloy body

Model STA200

BNC, N or 7/16



Specification :

Nominal Impedance: 50Ω

Power Rating: 200 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: BNC, N or 7/16

Construction: Stainless steel / aluminum alloy body

MAXIMUM DEVIATION			
Nominal ATT	4G	10G	18G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.7	±0.7	±0.7
21 - 30 dB	±1.0	±1.0	±1.0
31 - 40 dB	±1.2	±1.2	±1.2

MAXIMUM VSWR			
Model	4G	10G	18G
VSWR	1.2	1.25	1.35

MAXIMUM DEVIATION			
Nominal ATT	4G	6G	8G
1 - 10 dB	±0.5	±0.5	±0.5
11 - 20 dB	±0.7	±0.7	±0.7
21 - 30 dB	±1.0	±1.0	±1.0
31 - 40 dB	±1.2	±1.2	±1.2

MAXIMUM VSWR			
Model	4G	6G	8G
VSWR	1.2	1.25	1.35

Model STL - S - 2W - 6G SMA Connector



Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω

Frequency Range: dc to 6 GHz

Power Rating: 2 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: SMA connector

Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR	
Model	STL - S - 2W - 6G
VSWR	1.15

Model STL - N - 5W - 6G SMA, N Connector



Specification :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω

Frequency Range: dc to 6 GHz, dc to 18GHz

Power Rating: 5 watts average

Temperature Range: -55-125°C (-67-257 °F)

Connectors: SMA connector

Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR		
Model	STL - N - 5W - 6G	STL - N - 5W - 18G
VSWR	1.25	1.3

Model STL - N - 20W - 3G N Connector



Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω
Frequency Range: dc to 3 GHz
Power Rating: 20 watts average
Peak Power : 1000 watts average
Temperature Range: -55-125°C
 (-67-257 °F)
Connectors: N connector
Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR	
Model	STL - N - 20W - 3G
VSWR	1.15

Model STL - N - 30W - 3G N Connector



Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω
Frequency Range: dc to 3 GHz
Power Rating: 30 watts average
Peak Power : 1000 watts average
Temperature Range: -55-125°C
 (-67-257 °F)
Connectors: N connector
Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR	
Model	STL - N - 30W - 3G
VSWR	1.12

Model STL - N - 100W - 3G N Connector



Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω
Frequency Range: dc to 3 GHz
Power Rating: 100 watts average
Peak Power : 1200 watts average
Temperature Range: -55-125°C
 (-67-257 °F)
Connectors: N connector
Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR	
Model	STL - N - 100W - 3G
VSWR	1.2

Model STL - N - 200W - 3G N Connector



Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery

Specification :

Nominal Impedance: 50Ω
Frequency Range: dc to 3 GHz
Power Rating: 200 watts average
Peak Power : 1200 watts average
Temperature Range: -55-125°C
 (-67-257 °F)
Connectors: N connector
Construction: Stainless steel / aluminum alloy body

MAXIMUM VSWR	
Model	STL - N - 200W - 3G
VSWR	1.15

Model MVA - N - XX - 1/MVA - S - XX - 1 Manual Variable Attenuator

DC to 4 GHz / 6GHz
2 Watts



Number of Ports: 1 input and 1 output
Temperature Range: -20-90°C (-4-194 °F)

Features :

- ◆ Widest Selection of Attenuation Ranges & Step Sizes
- ◆ Available Models:
- ◆ High quality, cost effective and fast delivery

Specification :

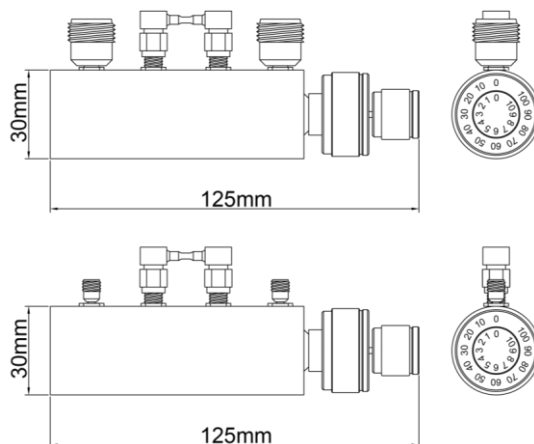
Nominal Impedance: 50Ω
Frequency Range: DC to 4 GHz / 6 GHz
Insertion Loss: 0.8 dB maximum
Maximum Input Power: 2W
VSWR: 1.3@4GHz, 1.5@6GHz
Isolation: 20 dB minimum

ATTENUATION ACCURACY		
Attenuation Range	Accuracy	
0 - 10 dB	≤ ±0.2 dB@ 4GHz	≤ ±0.2 dB@6GHz
11 - 40 dB	≤ ±0.5 dB@ 4GHz	≤ ±0.5 dB@6GHz
41 - 70 dB	≤ ±1.2 dB@ 4GHz	≤ ±2 dB@6GHz
71 - 100 dB	≤ ±3 dB	

CONFIGURATIONS

Model	Attenuation Range (dB)	Steps (dB)
STVA - N - 30 - 1	0 - 30	1
STVA - N - 60 - 1	0 - 60	1
STVA - N - 90 - 1	0 - 90	1
STVA - N - 100 - 1	0 - 100	1
STVA - S - 30 - 1	0 - 30	1
STVA - S - 60 - 1	0 - 60	1
STVA - S - 90 - 1	0 - 90	1
STVA - S - 100 - 1	0 - 100	1

Dimension :



Model STVA - X - 100 - 10 Manual Variable Attenuator

DC to 4 GHz
2 Watts



Number of Ports: 1 input and 1 output
Temperature Range: -20-90°C (-4-194 °F)
Connectors: N or SMA

Features :

- ◆ Widest Selection of Attenuation Ranges & Step Sizes
- ◆ Available Models:
- ◆ High quality, cost effective and fast delivery

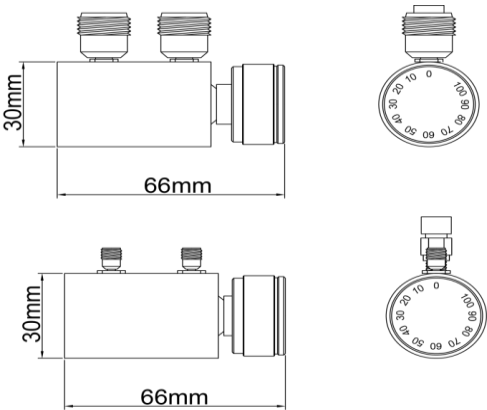
Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 4 GHz / 6 GHz
Insertion Loss: 0.8 dB maximum
Maximum Input Power: 2W
VSWR: 1.3@4GHz, 1.5@6GHz
Isolation: 20 dB minimum

CONFIGURATIONS		
Model	Attenuation range (dB)	Steps (dB)
STVA - N - 60 - 10	0 - 60	10
STVA - N - 90 - 10	0 - 90	10
STVA - N - 100 - 10	0 - 100	10
STVA - S - 60 - 10	0 - 60	10
STVA - S - 90 - 10	0 - 90	10
STVA - S - 100 - 10	0 - 100	10

ATTENUATION ACCURACY		
Attenuation Range	Accuracy	
0 - 10 dB	≤ ±0.2 dB@ 4GHz	≤ ±0.2 dB@6GHz
11 - 40 dB	≤ ±0.5 dB@ 4GHz	≤ ±0.5 dB@6GHz
41 - 70 dB	≤ ±1.2 dB@ 4GHz	≤ ±2 dB@6GHz
71 - 100 dB	≤ ±3 dB	

Dimension :



Model STVA - N - 90 - 1 Push Button Variable Attenuator

700 MHz to 3 GHz
5 Watts



Number of Ports: 1 input and 1 output

Temperature Range: -10-50°C (14-122 °F)

Connectors: N female connectors all ports

Features :

- ◆ Widest Selection of Attenuation Ranges & Step Sizes
- ◆ Available Models:
- ◆ High quality, cost effective and fast delivery

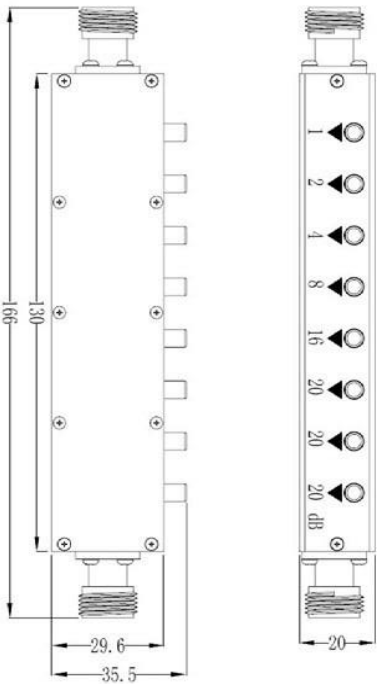
CELL CONFIGURATIONS		
Model	Attenuation Range (dB)	Steps (dB)
STVA-N-90-1	0 - 90	1,2,4,8,16,20,20, 20 dB

Specification :

Nominal Impedance: 50Ω
Frequency Range: 700 MHz to 3 GHz
Insertion Loss: 3.5 dB maximum
Maximum Input Power: 5W
VSWR: 1.4
Isolation: 20 dB minimum

ATTENUATION ACCURACY (SINGLE KEY)	
0 - 8	≤ ±0.9 dB
10 - 20 dB	≤ ±2 dB

Dimension :



Model STPD - 2X - 1X 2 - Way



Specification :

Nominal Impedance: 50Ω

Isolation: ≥ 20 dB

Number of Ports: 1 input and 2 outputs

Connectors: SMA Female or N Female

Temperature Range: -40-70°C
(-40-158 °F)

Specification:			
Freq. GHz	0.7 - 3	0.7 - 4	0.6 - 6
Insertion Loss	≤ 3.6 dB	≤ 3.6 dB	≤ 4 dB
Amplitude Balance	±0.3 dB	±0.3 dB	±0.4 dB
Phase Balance	±3°	±3°	±4°
VSWR	1.25	1.25	1.4
Max. power	10W	10W	10W
Isolation	≥ 20 dB	≥ 20 dB	≥ 20 dB

Model STPD - 3X - 1X 3 - Way



Specification :

Nominal Impedance: 50Ω

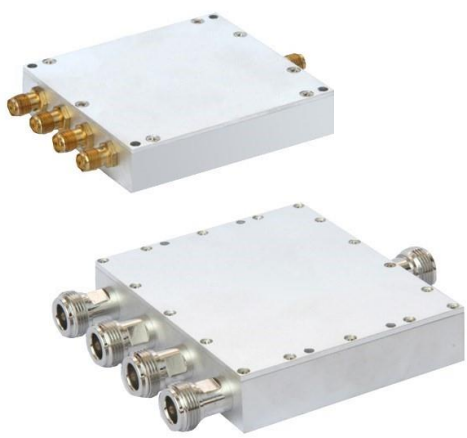
Number of Ports: 1 input and 3 outputs

Connectors: SMA Female or N Female

Temperature Range: -40-70°C
(-40-158 °F)

Specification:			
Freq. GHz	0.7 - 3	0.7 - 4	0.6 - 6
Insertion Loss	≤ 5.6 dB	≤ 5.6 dB	≤ 8 dB
Amplitude Balance	±0.8 dB	±0.8 dB	±0.6 dB
Phase Balance	±8°	±8°	±10°
VSWR	1.5	1.5	1.5
Max. power	10W	10W	10W
Isolation	≥ 20 dB	≥ 20 dB	≥ 16 dB

Model STPD - 4X - 1X 4 - Way



Specification :

Nominal Impedance: 50Ω

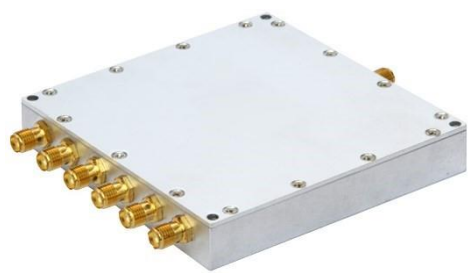
Number of Ports: 1 input and 4 outputs

Connectors: SMA Female or N Female

Temperature Range: -40-70°C
(-40-158 °F)

Specification:			
Freq. GHz	0.7 - 3	0.7 - 4	0.6 - 6
Insertion Loss	≤ 6.8 dB	≤ 7.4 dB	≤ 8.2 dB
Amplitude Balance	±0.4 dB	±0.5 dB	±0.5 dB
Phase Balance	±4°	±5°	±5°
VSWR	1.25	1.3	1.4
Max. power	10W	10W	20W
Isolation	≥ 20 dB	≥ 20 dB	≥ 20 dB

Model STPD - 6X - 1X 6 - Way



Specification:	
Freq. GHz	0.7 - 3
Insertion Loss	≤ 9 dB
Amplitude Balance	±0.8 dB
Phase Balance	±10°
VSWR	1.4
Max. power	10W
Isolation	≥ 20 dB

Specification:	
Freq. GHz	0.7 - 4
Insertion Loss	≤ 9.4 dB
Amplitude Balance	±0.8 dB
Phase Balance	±10°
VSWR	1.5
Max. power	10W
Isolation	≥ 20 dB

Model STPD - 8X - 1X
8 - Way



Specification :

Nominal Impedance: 50Ω
Number of Ports: 1 input and 8 outputs
Connectors: SMA Female or N Female
Temperature Range: -40-70°C (-40-158 °F)

Specification:			
Freq. GHz	0.7 - 3	0.7 - 4	0.6 - 6
Insertion Loss	≤ 10.4 dB	≤ 10.6 dB	≤ 11.8 dB
Amplitude Balance	±0.5 dB	±0.5 dB	±0.5 dB
Phase Balance	±4°	±6°	±5°
VSWR	1.25	1.4	1.5
Max. power	10W	10W	10W
Isolation	≥ 20 dB	≥ 20 dB	≥ 18 dB

Model STPD - 16X - 1X
16 - Way



Specification :

Nominal Impedance: 50Ω
Number of Ports: 1 input and 16 outputs
Connectors: SMA Female or N Female
Temperature Range: -40-70°C (-40-158 °F)

Specification:			
Freq. GHz	0.7 - 3	0.7 - 4	-6
Insertion Loss	≤ 14.3 dB	≤ 14.5 dB	≤ 15.8 dB
Amplitude Balance	±0.5 dB	±0.6 dB	±0.5 dB
Phase Balance	±12°	±10°	±10°
VSWR	1.4	1.5	1.5
Max. power	10W	10W	10W
Isolation	≥ 20 dB	≥ 18 dB	≥ 18 dB

Model STC



Features :

- ◆ Subminiature size and lightweight
- ◆ High quality, cost effective and fast delivery

Model STC - N - 1700 - 2100	
Freq. GHz	1.7 - 2.1
Insertion Loss	≤ 0.5 dB
VSWR	≤ 1.3
Isolation	≥ 18 dB
Forward Power	30W
Port Connectors	N - Female
Direction	Clockwise
Temperature Range	-30-75°C(-22-167 °F)
Cavity Dimensions	25.4 x 28.5 x 20mm

Model STC - S - 700 - 800	
Freq. GHz	0.7 - 0.8
Insertion Loss	≤ 0.5 dB
VSWR	≤ 1.27
Isolation	≥ 18 dB
Forward Power	30W
Port Connectors	SMA - Female
Direction	Clockwise
Temperature Range	-4-75°C (24.8-167 °F)
Cavity Dimensions	30 x 33 x 20mm

Model STC - S - 1700 - 2300	
Freq. GHz	1.7 - 2.3
Insertion Loss	≤ 0.4 dB
VSWR	≤ 1.2
Isolation	≥ 23 dB
Forward Power	20W
Port Connectors	SMA - Female
Direction	Clockwise
Temperature Range	-10-50°C(14-122 °F)
Cavity Dimensions	45 x 45 x 19mm

Model STC - N - 689 - 1000	
Freq. GHz	0.698 - 1
Insertion Loss	≤ 0.5 dB
VSWR	≤ 1.35
Isolation	≥ 18 dB
Forward Power	20W
Port Connectors	N - Female
Direction	Clockwise
Temperature Range	-40-85°C(-40-185 °F)
Cavity Dimensions	48x 48.2 x 24mm

Model STC - N - 2000 - 3000	
Freq. GHz	2 - 3
Insertion Loss	≤ 0.45 dB
VSWR	≤ 1.25
Isolation	≥ 20 dB
Forward Power	20W
Port Connectors	N - Female, N - Male
Direction	Clockwise
Temperature Range	-40-85°C(-40-185 °F)
Cavity Dimensions	31.7 x 25 x 18mm

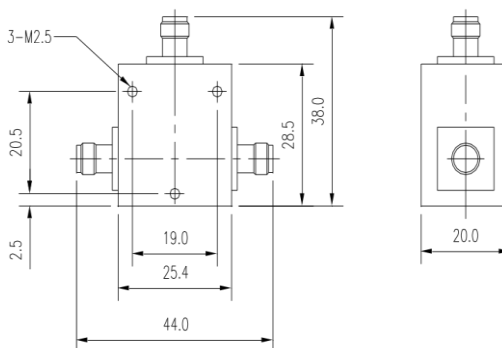
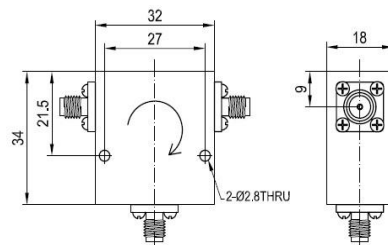
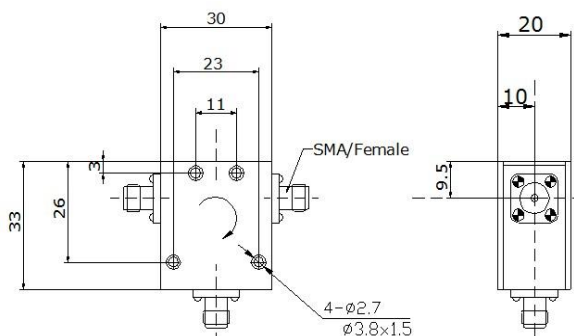
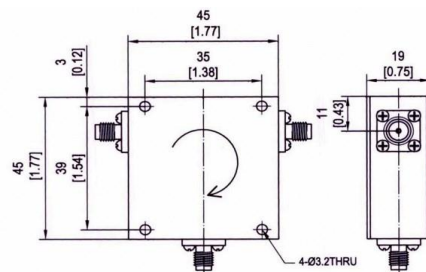
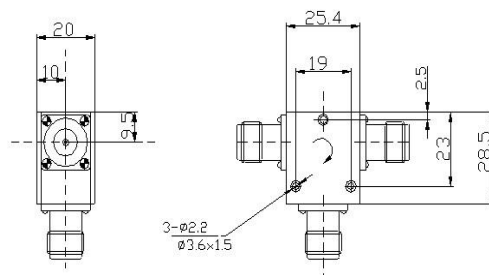
Model STC - S - 2000 - 4000

Freq. GHz	4-Feb
Insertion Loss	≤ 0.6 dB
VSWR	≤ 1.35
Isolation	≥ 17 dB
Forward Power	20W
Port Connectors	SMA - Female
Direction	Clockwise
Temperature Range	-10-50°C(14-122 °F)
Cavity Dimensions	34 x 32 x 18mm

Model STC - S - 2400 - 2600

Freq. GHz	2.4 - 2.6
Insertion Loss	≤ 0.45 dB
VSWR	≤ 1.3
Isolation	≥ 20 dB
Forward Power	20W
Port Connectors	SMA - Female
Direction	Clockwise
Temperature Range	-40-85°C(-40-185 °F)
Cavity Dimensions	25.4 x 28.5 x 20mm

Dimension :





Features :

- ◆ Subminiature size and lightweight
- ◆ Low cost
- ◆ High quality, cost effective and fast delivery
- ◆ Customizable

Model STDX - 710/740 - A		
Freq. MHz	734 - 746	704 - 716
Insertion Loss	≤ 1.5 dB	≤ 1.5 dB
Ripple	≤ 1 dB	≤ 1 dB
Return Loss	≥ 20 dB	≥ 20 dB
Isolation	≥ 70 dB	
Connectors	N Female	
Power	10W	
Dimensions	134 x 101 x 41mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - GSM - 3G - A		
Freq. MHz	800 - 960	1710 - 2170
Insertion Loss	≤ 1 dB	≤ 1 dB
Ripple in Band	≤ 0.6 dB	≤ 0.6 dB
Return Loss	≥ 18 dB	≥ 18 dB
Rejection	≥ 60 dB	
Connectors	DIN/N/SMA Female	
Power Handling	50W	
Dimensions	140 x 140 x 54mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - 850M - A		
Freq. MHz	824 - 849	869 - 894
Insertion Loss	≤ 1 dB	≤ 1 dB
Ripple in Band	≤ 0.6 dB	≤ 0.6 dB
VSWR	≤ 1.3	≤ 1.3
Rejection	≥ 90 dB	
Connectors	DIN/N Female	
Power Handling	200W	
Dimensions	154 x 154 x 46mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - 900M - A		
Freq. MHz	-915	-960
Insertion Loss	≤ 1 dB	≤ 1 dB
Return Loss	≥ 18 dB	≥ 18 dB
Isolation	≥ 60 dB	
Connectors	N/SMA Female	
Power	50W	
Dimensions	x 121 x 89mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - G25 - 03		
Freq. MHz	890 - 915	935 - 960
Insertion Loss	≤ 1.6 dB	≤ 1.6 dB
Ripple	≤ 1 dB	≤ 1 dB
Return Loss	≥ 18 dB	≥ 18 dB
Isolation	≥ 90 dB	
Connectors	SMA Female	
Power	50W	
Dimensions	210 x 70 x 38mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - PCS - 01		
Freq. MHz	1850 - 1910	1930 - 1990
Insertion Loss	≤ 3 dB	≤ 3 dB
Ripple	≤ 1.5 dB	≤ 1.5 dB
VSWR	≤ 1.3	≤ 1.3
Rejection	≥ 70 dB	
Connectors	SMA Female	
Power	15CW	
Dimensions	101 x 101 x 50mm	
Temperature	0-40°C(32-104 °F)	

Model STDX - AWS - 07		
Freq. MHz	1710 - 1785	2100 - 2155
Insertion Loss	≤ 0.5 dB	≤ 0.5 dB
Ripple in Band	≤ 0.4 dB	≤ 0.4 dB
Return Loss	≥ 22 dB	
Isolation	≥ 80 dB	
Power	250CW	
Connectors	N - F	
Dimensions	89 x 117 x 41mm	
Temperature	-10-55°C(14-131°F)	

Model STDX - 2111/2130 - 01		
Freq. MHz	2108 - 2114	2127 - 2130
Insertion Loss	≤ 3 dB	≤ 3 dB
VSWR	≤ 1.3	≤ 1.3
Isolation	≥ 30 dB@2127 - 2130 MHz	≥ 30 dB@2108 - 2114 MHz
Connectors	N Female	
Power	200W	
Dimensions	115 x 60 x 31mm	
Temperature	-10-50°C(14-122 °F)	

Model STDX - UMTS - 03		
Freq. MHz	-1980	-2170
Insertion Loss	≤ 0.5 dB	≤ 0.5 dB
VSWR	≤ 1.3	≤ 1.3
Rejection	≥ 75 dB	
Connectors	SMA Female	
Power	15CW	
Dimensions	100 x 77 x 31mm	
Temperature	-20-60°C(44-140 °F)	
Temperature	-10-55°C(14-131°F)	

Model STDX - LTE - 01		
Freq. MHz	-2570	-2690
Insertion Loss	≤ 0.8 dB	≤ 0.8 dB
VSWR	≤ 1.3	≤ 1.3
Rejection	≥ 75 dB	
Power	≤ 50CW	
Connectors	SMA Female	
Dimensions	100 x 77 x 25mm	
Temperature	-25-60°C(-13-140 °F)	
Temperature	-10-50°C(14-122 °F)	

RG 223 Series



Specification :

- Nominal Impedance: 50Ω
- Frequency Range: DC to 6 GHZ
- Velocity of Propagation: 66%
- Power Handing: 900 W

CABLE STRUCTURE	
Inner Conductor	CU-silver
Dielectric	PE
Outer Conductor	CU-silver
Outer Jacket	PVC
MECHANICAL DATA	
Jacket Diameter, nominal	5.35mm
Static Bend Radius, min.	30mm
Temperature Range	-30-100°C(-22-212 °F)
Weight, nominal	65g/m
ATTENUATION	
Freq. MHz	Attenuation dB/100m
1	1.1
10	3.9
50	9.2
200	19.7
400	28.9
900	45.3
1000	47.6

RG 142 Series



Specification :

- Nominal Impedance: 50Ω
- Frequency Range: DC to 12.4 GHZ
- Velocity of propagation: 69.5%
- Maximum Voltage: 1900 V

CABLE STRUCTURE			
Inner Conductor	Silver Plated Copper Clad		
Dielectric	PTFE		
Outer Conductor	Silver Plated Copper Braid		
Outer Jacket	FEP		
MECHANICAL DATA			
Jacket Diameter, nominal	4.95mm		
Static Bend Radius, min.	25mm		
Temperature Range	-55-200°C(-67-392 °F)		
Weight, nominal	46g/m		
ATTENUATION			
Freq. MHz	Attenuation dB/m	Freq. MHz	Attenuation dB/m
10	3.6	1000	43
50	8.5	3000	79.4
100	12.5	5000	107
400	25.9	8000	166.7
900	40.4	12400	263.8

RG 316 Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 3 GHZ
Velocity of propagation: 69.5%
Maximum Voltage: 1200 V

CABLE STRUCTURE	
Inner Conductor	CU-silver
Dielectric	FEP
Outer Conductor	CU-silver
Outer Jacket	FEP
MECHANICAL DATA	
Jacket Diameter, nominal	2.5mm
Static Bend Radius, min.	15mm
Temperature Range	-55-200°C(-67-392 °F)
Weight, nominal	17g/m
ATTENUATION	
Freq. MHz	Attenuation dB/100m
10	18.4
50	27.2
200	36.1
400	54.8
700	74.8
900	86.3
1000	90.2
3000	155.2

Super - Flexible Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 26.5 GHZ
Shielding Effectiveness: >90 dB
VSWR: 1.27@18 GHz
Power Handling: 180 W

CABLE STRUCTURE	
Inner Conductor	Solid Silver
Dielectric	Expanded PTFE
Outer Conductor	Silver
Outer Jacket	FEP
MECHANICAL DATA	
Average VSWR	1.05 - 1.35
Temperature Range	-55-125°C(-67-257 °F)
ATTENUATION	
Freq. GHz	Attenuation dB/m
1	0.32
5	0.73
10	1.01
18	1.38
26.5	1.68

Super Reliable Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 26.5 GHZ
Shielding Effectiveness: >100 dB
VSWR: 1.27@18 GHz
Power Handing: 129 W

S Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 40 GHZ
Shielding Effectiveness: >100 dB
VSWR: 1.27@18 GHz
Power Handing: 55 W

CABLE STRUCTURE	
Inner Conductor	Solid Silver
Dielectric	Solid PTFE
Outer Conductor	Silver
Outer Jacket	FEP
MECHANICAL DATA	
Jacket Diameter, nominal	4.95mm
Static Bend Radius, min.	25.4mm
Temperature Range	-55-130°C(-67-266 °F)
Weight, nominal	71g/m
ATTENUATION	
Freq. GHz	Attenuation dB/m
1	0.4
5	1.01
10	1.54
18	2.16
26.5	2.91

CABLE STRUCTURE	
Inner Conductor	Solid Silver
Dielectric	Solid PTFE
Outer Conductor	Silver
Outer Jacket	FEP
MECHANICAL DATA	
Jacket Diameter, nominal	2.64mm
Static Bend Radius, min.	12.5mm
Temperature Range	-55-125°C(-67-257 °F)
Weight, nominal	22.3g/m
ATTENUATION	
Freq. GHz	Attenuation dB/m
1	0.67
5	1.61
10	2.93
18	3.39
26.5	4.6
40	5.9

Superior Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 18 GHz
Velocity of Propagation: 76.5%
VSWR: 1.15@18 GHz
Breakdown Voltage: 10 KV

CABLE STRUCTURE	
Inner Conductor	Silver Copper
Dielectric	Micro-porous PTFE
Outer Conductor	Silver Copper
Outer Jacket	FEP
MECHANICAL DATA	
Jacket Diameter, nominal	5.21mm
Static Bend Radius, min.	25.4mm
Temperature Range	-65-200°C(-85-392 °F)
Weight, nominal	0.074g/m
ATTENUATION	
Freq. GHz	Attenuation dB/m
0.5	0.18
2	0.37
12	0.98
18	1.21

Low - Loss Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 40 GHz
Shielding Effectiveness: >100 dB
VSWR: 1.27@18 GHz
Power Handling: 172 W@10 GHz

CABLE STRUCTURE	
Inner Conductor	Solid Silver
Dielectric	Ultra Low Density PTFE
Outer Conductor	Silver
Outer Jacket	FEP
MECHANICAL DATA	
Jacket Diameter, nominal	3.6mm
Static Bend Radius, min.	9.65mm
Temperature Range	-65-165°C(-85-329 °F)
Weight, nominal	32.8g/m
ATTENUATION	
Freq. GHz	Attenuation dB/m
5	0.85
10	1.21
18	1.66
26.5	2.01

HMR - 400 Series



Specification :

Nominal Impedance: 50Ω
Frequency Range: DC to 6 GHZ
Shielding Effectiveness: >90 dB
Average VSWR: 1.15 - 1.25
Peak Power: 16KW

CABLE STRUCTURE			
Inner Conductor		Solid BCCAI	
Dielectric		Foam PE	
Outer Conductor		Aluminum Tape	
Outer Jacket		TPE	
MECHANICAL DATA			
Jacket Diameter, nominal		10.29mm	
Static Bend Radius, min.		30mm	
Temperature Range		-40-85°C(-40-185°F)	
Weight, nominal		210g/m	
ATTENUATION			
Freq. MHz	Attenuation dB/100m	Freq. MHz	Attenuation dB/100m
30	2.7	900	15.4
50	3.5	1500	20.2
150	6.1.	1800	22.3
220	7.4	2500	26.6
450	10.7	5800	42.6

F Series



Specification :

Frequency Range: DC to 28 GHZ
Nominal Impedance: 50Ω
Shielding Effectiveness: >92 dB

CABLE STRUCTURE	
Inner Conductor	Solid Silver
Dielectric	Tape Wrapped PTFE
Outer Conductor	Silver Plated Copper
Outer Jacket	FEP/PUR
MECHANICAL DATA	
Jacket Diameter, nominal	7.5mm
Static Bend Radius, min.	20mm
Temperature Range	-55-130°C(-67-266 °F)
Weight, nominal	71g/m
ATTENUATION	
Freq. MHz	Attenuation dB/100m
300	20.45
500	26.68
1000	38.47
3000	69.84
6000	103.22
10000	138.96
12400	157.94
18000	198.03
265000	252.07

1/2 Series



Specification :

Nominal Impedance: 50Ω

Frequency Range: DC to 6 GHZ

Shielding Effectiveness: >120 dB

CABLE STRUCTURE			
Inner Conductor	Copper-clad Aluminum		
Dielectric	Foam PE		
Outer Conductor	Corrugated Copper		
Outer Jacket	PE		
MECHANICAL DATA			
Jacket Diameter, nominal	13.3mm		
Static Bend Radius, min.	30mm		
Temperature Range	-55-85°C(-67-185 °F)		
Weight, nominal	210g/m		
ATTENUATION			
Freq. MHz	Attenuation dB/100m	Freq. MHz	Attenuation dB/100m
100	3.22	1500	13.8
150	4.05	1800	15.5
200	4.65	2500	18.5
450	7.2	3000	20.9
900	10.56	6000	34.4

Transparent Series



Specification :

Nominal Impedance: 50Ω

Frequency Range: DC to 26.5 GHZ

Shielding Effectiveness: >90 dB

CABLE STRUCTURE			
Inner Conductor	Solid Silver		
Dielectric	Tape Wrapped PTFE		
Outer Conductor	Silver Plated Copper		
Outer Jacket	PVC		
MECHANICAL DATA			
Jacket Diameter, nominal	10.8mm		
Static Bend Radius, min.	20mm		
Temperature Range	-55-85°C(-67-185 °F)		
Weight, nominal	71g/m		
ATTENUATION			
Freq. MHz	Attenuation dB/100m	Freq. MHz	Attenuation dB/100m
300	20.45	10000	138.96
500	26.68	12400	157.94
1000	38.47	18000	198.03
3000	69.84	265000	252.07
6000	103.22		

Model ST - ANTENNA - WIFI



Features :

- ◆ Support 2.4GHz - 2.5GHz, 5.8GHz
- ◆ High quality, cost effective and fast delivery

Specification :

Antenna 4G	
Frequency Range	2.4GHz to 2.5GHZ,
Nominal Impedance:	50Ω
Gain	5dBi±0.7dBi
VSWR	≤2
Temperature Range	- 40-60°C (-40-140°F)
Connector	SMA
Color	Black

Dimension :



Model ST - ANTENNA - 4G



Features :

- ◆ Support 700Mhz –2.7GHz
- ◆ High quality, cost effective and fast delivery

Specification :

Antenna 4G	
Frequency Range	700MHz to 2.7GHZ
Nominal Impedance:	50Ω
Gain	5dBi±0.7dBi
VSWR	≤2
Temperature Range	- 40-60°C (-40-140°F)
Connector	SMA
Color	Black

Dimension :



Model STAD

DC to 18 GHz



Features :

- ◆ Rugged Injection Molded Connectors
- ◆ High Repeatability
- ◆ Nominal Impedance:50Ω

Specification :

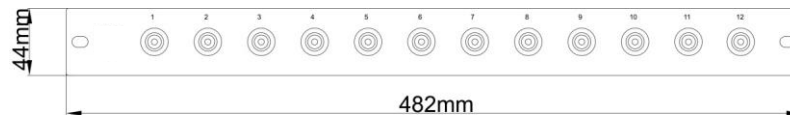
Model	Freq.	VSWR	Model	Freq.	VSWR
SMA - SMA (male or female)	DC-6GHz	1.25	TNCA - TNCA (male or female)	DC-18GHz	1.25
TNC - TNC (male or female)	DC-11GHz	1.25	N - 3.5mm (male or female)	DC-18GHz	1.15
BMA - BMA (male or female)	DC-6GHz	1.2	N - 2.92mm (male or female)	DC-18GHz	1.15
7/16 - 7/16 (male or female)	DC-6GHz	1.25	N - 2.4mm (male or female)	DC-18GHz	1.15
4.3—10 - 4.3—10 (male or female)	DC-6GHz	1.2	N - TNCA (male or female)	DC-18GHz	1.2
SMA - SMB (male or female)	DC-6GHz	1.25	4.3-10 - N (male or female)	DC-6GHz	1.2
SMA - MCX (male or female)	DC-4GHz	1.25	3.5mm - 2.92mm (male or female)	DC-33GHz	1.15
SMA - BMA (male or female)	DC-6GHz	1.25	3.5mm - 2.4mm (male or female)	DC-33GHz	1.15
N - SMA (male or female)	DC-11GHz	1.3	3.5mm - 1.85mm (male or female)	DC-40GHz	1.2
SMA - SSMP (male or female)	DC-18GHz	1.25	2.92.mm - 2.4mm (male or female)	DC-33GHz	1.15
7/16 - N (male or female)	DC-6GHz	1.25	2.92mm - 1.85mm (male or female)	DC-40GHz	1.2
SMA - SMP (male or female)	DC-18GHz	1.25	2.92mm - SMA (male or female)	DC-27GHz	1.15
3.5mm - 3.5mm (male or female)	DC-33GHz	1.15	2.92mm - SSMP (male or female)	DC-40GHz	1.2
2.92mm - 2.92mm (male or female)	DC-33GHz	1.15	2.4mm - 1.85mm (male or female)	DC-50GHz	1.2
2.4mm - 2.4mm (male or female)	DC-50GHz	1.2	2.4mm - SMA (male or female)	DC-27GHz	1.15
1.8mm - 1.8mm (male or female)	DC-65GHz	1.2	TNCA - SMA (male or female)	DC-18GHz	1.2



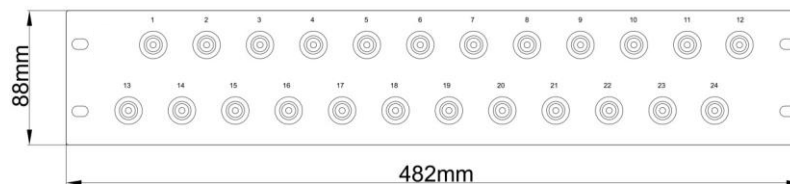
Features :

- ◆ Any RF connector combination
- ◆ Any power divider combination
- ◆ Customized dimension

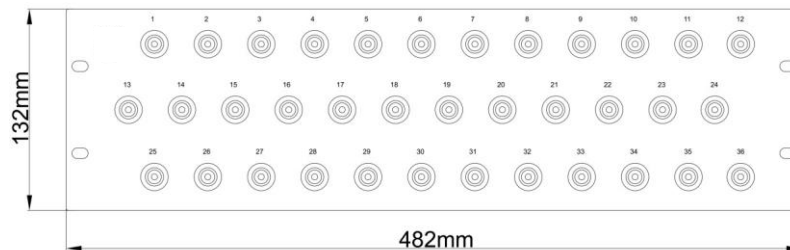
Dimension :



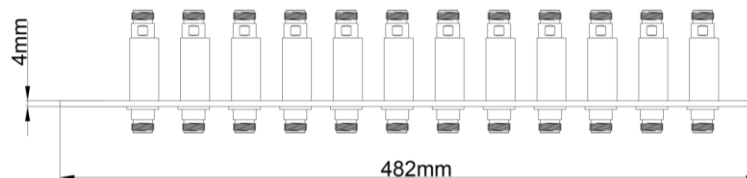
1U PATCH PANEL



2U PATCH PANEL



3U PATCH PANEL



PATCH PANEL WITH
POWER DIVIDERS

(Patch Panels are customized according to customer needs)