**Product Introduction** 





## Easy 4x4 MIMO Base Station to Mobile Terminal Connections

STACSIM-WB (Static Channel Simulator) ACC-339

## **Advantages of Changing to Fixed Channel Emulator for MIMO Connections**



## Azimuth STACSIM-WB About ACC-339 – 1/2

Easy, low-cost configuration of MIMO environments up to 4x4 as end-to-end base station to mobile terminal test system for benchmarking between devices and versions

> Also supports 5G sub-6 GHz and WLAN



266(W) x 11(H) x 133(D) mm

ltem	Specification		
Frequency Band	700 MHz to 6.0 GHz		
RF Configuration	4 Inputs x 4 Outputs		
Insertion Loss	10 dB typ.		
Amplitude Balance	3.7 dB max		
Phase Balance	±30° max		
Isolation	15 dB min		
Total Input Power	+30 dBm/port (no input at other ports)		
VSWR All ports	1.5:1		
I/O Connector	SMA Female		
Operating Temperature Range	-10° to +40°C		

## Azimuth STACSIM-WB About ACC-339 – 2/2

The STACSIM is a built-in Butler Matrix. The STACSIM distributes the power equally to every output port even when inputting power from any of the multiple input ports. But the phase shift for each these output ports differs according to the input port (table below). And the each phase difference becomes linear (different slope) between output ports at any inputs.



Table 1-1. Phase of Output Signals with Reference to the Input Signal

Reference input port	Values of phase at output ports in degrees				
	B1	B2	B3	B4	
A1	-45	-90	-135	-180	
A2	-135	0	135	270	
A3	270	135	0	-135	
A4	-180	-135	-90	-45	





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