Satellite Delay Simulator
Vendor Comparison

HOLLIS ELECTRONICS COMPANY LLC

Investment in a Satellite Simulator to test your satellite equipment is essential to keeping company costs down. Selecting a product to meet your needs now and in the future is essential. Compare products and contact us.

Feature	Hollis Electronics' HSDS	Competitor A	Competitor B
General System			
IF Operating Frequencies	70 MHz or 140 MHz	70 MHz or 140 MHz	N/A
RF Operating Frequencies	Available via separate RF converters	Available via separate RF converters	350 MHz – 6 GHz
Bandwidth	36 MHz (1 dB) 72 MHz (1 dB) 100 MHz (1 dB) 125 MHz (3 dB)	22 MHz (3 dB) 45 MHz (3 dB)	65 MHz 100 MHz
Number of Channels	Unlimited	Up to 4	Up to 8
Noise Generator? / Type	Included (1 per channel) / Digital	Purchase Option / Analog	Purchase Option / Analog
Internal Power Meter?	Yes (1 per channel)	Not Available	Not Available
Calibration Required?	Never	Yes	Yes
Field Upgradeable?	Yes	No	No
Delay			
Range	5 us to 2.1 seconds	0.1 ms to 697 ms	up to 640ms *(6.4ms/path)*
Accuracy	Based on 10 MHz reference	± 0.1 ns plus 10 MHz reference error	± 1 ns
Delay Modes	Off (Bypass), Sinusoidal, Base Delay Only, Linear/Limit, Linear/Cyclic		Constant, dynamic periodic, User defined
Frequency Doppler			
Type	Pure Doppler		Pure Doppler
Profile Types	Linear limit, Linear cyclical, Sinusoidal		Sinusoidal, triangular or linear, user defined
Doppler Range	± 1 MHz *	± 3 MHz	± 1.25 MHz
Digital Step Size	10 Hz or less *	0.01 Hz	
Rain (Flat) Fade			
Type	Rain (Flat) Fade	Flat Fade	Flat Fade; plus multipath cellular profiles
Profiles	User Defined	User Defined	User Defined
Max Rate of Change	39.99 dB / 0.001 sec*	40dB / 0.001 sec	
Carrier to Noise Generator (AGWN) Included		***Must Purchase Separately***	***Must Purchase Separately***
Type	Digital	Analog	Analog
Modes	Off, C/No, C/N, Eb/No, No, User Defined Gains	Off, C/N, C/No, Eb/No, C/I	
Crest Factor	16.7 dB (when used with entire system; can be increased)	18 dB (separately; much less when used with Simulator)	13 dB

**** These values are currently software limited based on expected field values; can be increased upon request.***

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