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Simulator 2

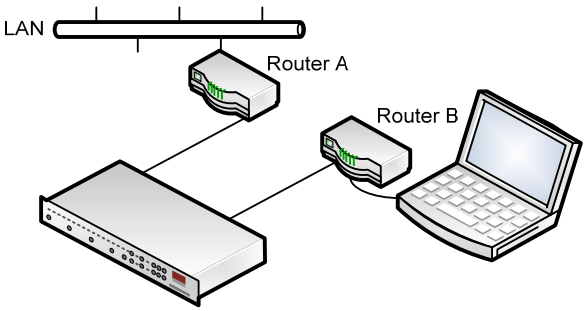
High performance synchronous satellite link simulator providing delay, error conditions and test facilities



Main Features

The Simulator 2 is a low cost, easy to operate leased line simulator, specifically designed to emulate a point to point (or SCPC) satellite link . By providing a realistic set of link conditions, the Simulator 2 is the perfect bench tool for any user or integrator involved in the stage testing and implementation of Wide Area Networks including satellite links, radio or terrestrial leased lines.

The Simulator 2 provides A and B simulation ports, and a station clock reference port for phase-locking the simulation rate to an external source.



In addition to front panel controls and indicators for independent use, a dedicated management port allows the user to program a wider range of conditions, or to drive the Simulator 2 from a PC using automated test sequences through a teletype-style command set.

The Simulator 2 is typically used as a convenient alternative to complex and often costly live system performance testing. It has many versatile features which allow equipment to be rigorously exercised in many of the final configurations for which it is intended. The primary function is as a synchronous full-duplex link and clock source, with variable end-to-end delay. Different delays can be inserted into the link in each direction.

Simulation

The Simulator 2 provides a simulated digital communications link at speeds up to 2Mbps. It can represent typical link fault and environmental conditions, whilst the versatility of clock sources and speeds allows a wide range of equipment to be connected for evaluation. Equipment connected can interface to the Simulator 2 by mean of a serial connection - X.21, RS422/449, V.35, RS530 or RS232 - as well as a full speed E1/T1 connection.

Error and Delay Injection

The error-injection facility allows typical line characteristics and fault conditions to be simulated, in conjunction with delay and clock generation facilities. Errors are injected in the local data stream just prior to output. At the same time, artificial latency up to 2 seconds (in 1 ms steps) can also be inserted into the simulated link, to ensure realistic satellite delay effects are presented to the connected devices.

Lab Testing

Allows systems to be authentically tested during development under controlled laboratory conditions, prior to the commitment to the installation of an expensive digital networks or sending a VSAT installation team to a remote site at great expense. This can all be done within the comfort of a test lab without a costly outlay in satellite time.

Stress Testing

Data link protocols and software stacks may be rigorously tested under most commonly encountered link conditions to ensure that a final implementation is fully robust. By using Simulator 2, conformance test fees may be kept to a minimum.

Simulation Ports	
Number of Ports:	2
Clock Sources:	Internal, External, Station Clock
Interfaces:	RS449/V.11/V.24, V.35 DCE or G.703(Co-directional)
Connectors:	DB15F for RS449/V.11/V.24/V.35, BNC and RJ45(UTP) for G.703
Features	
Data Rates:	9.6, 64, 128, 192, 256, 512, 1024, 2048 and intermediate rates by numeric entry
Buffer:	0, 25ms, 50ms, 100ms, 200ms, 300ms, 500ms, 1sec, 2sec and intermediate rates by numeric entry
Bit/burst Error Rate:	0, 10^{-2}, 10^{-3}, 10^{-4}, 10^{-5}, 10^{-6}, 10^{-7},10^{-8}, 10^{-9}
Test modes:	Local Loop, Remote Loop
Miscellaneous:	Bit/Burst error modes Single bit error-injection facility Separate kill buttons for CLOCK, RXD, TXD on both ports External clock reference input on BNC socket RS232 supervisor port for remote control Non-volatile memory of current settings
Front Panel Controls	
General Controls:	Rate, Delay, Error, Bit/Burst, Inject
Controls per port:	Clock Source, Loop, Kill RXD, Kill TXD, Kill Clock
General Indicators:	Rate, Delay, Error, Bit/Burst, Inject
Indicators per port:	Clock Source, Loop
Supervisor	
Data Format:	Asynchronous, 9600bps, 8-bit, no parity, 1 stop bit
Interface:	V.24/V.28 DCE on dedicated DB9F
Flow Control:	XON/XOFF(in-band)
Emulations:	Automatic support of most common terminals Structured menu and direct command line
Physical	
Dimensions:	430mm x 250mm x 44mm (1U) 19" rackmount enclosure
Weight:	1.5Kg
Environment:	Operating temperature 0-50°C, 0-90% RH non-condensing
Power Supply:	85-264V AC, 15 Watts, 47-440Hz



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