Switch Product Group Data Sheet

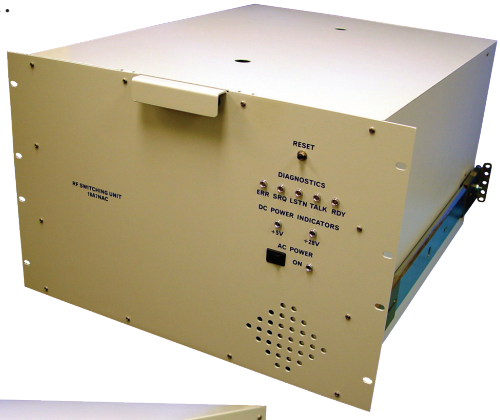
Model 18A7NAC

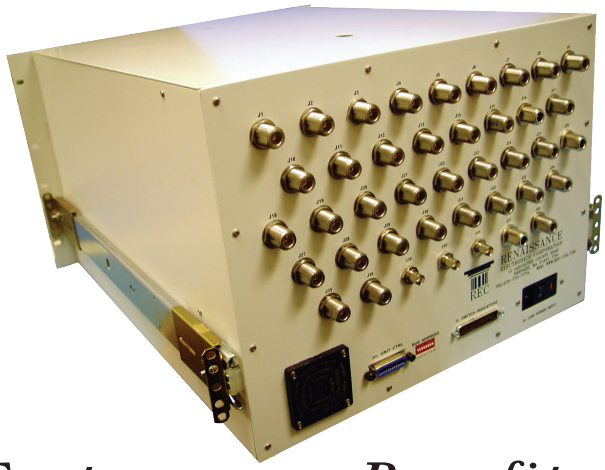
optimized

"The layout and choice of components were optimized to achieve lower loss and highest isolation."

Renaissance has successfully designed DC-18 GHz RF Switching Matrix Unit; this unit will direct RF and M/W frequency signals from general and special purpose test equipment to the system under test (SUT) as well as RF and M/W signals from the SUT to the test equipment. In general, the unit is used as an input/output switching matrix for RF transmitted/received signals. Additionally, it provides the capability to monitor its switches operational status continuously by the ATE controller.

This matrix consists of terminated electromechanical switches, programmable attenuators, couplers, circulators and power dividers to synthesize the RF signals. The layout and choice of components were optimized to achieve lower loss (<4 dB) and highest isolation (> 90 dB). The VSWR on all ports were better than 1.5:1. The unit is fully controlled by a GPIB interface and has a built in initialization and check routine. The matrix is 7U in height, 22" deep and mounts on a standard 19" rack. It weighs about 30 lbs and has telescopic rails that helps in servicing the inside without dismounting from the rack.





Features	Benefits
· DC – 18 GHz	· Covers the Entire Military Spectrum
· 10 Watt CW	· High Power Testing Capability
· High Isolation Between Channels	· Reliable Test Results
· GPIB Interface	· User Friendly Remote Interface
· Low VSWR	· No Spurious Modes

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Electrical Parameters

Frequency Range	0.7 - 18.0 GHz
Insertion Loss	10 dB
VSWR	1.8 : 1
Isolation	90 dB
Input Power	1 Watt
Switching Speed	30 mS
MTBF	20,000 hrs
PC Interface	GPIB/IEEE-488.2
Operating Temperature	0ºC to +40ºC
Non-Operating Temperature	-40 ºC to +65 ºC