

NEW PRODUCT

FEATURES

- 21.4, 70 or 160 MHz
- 16 X 24
- Non-Blocking
- Full Fanout
- Computer Control
- Expandable

DESCRIPTION

The Model 980 IF Switch Matrix is an expandable, computer-controlled, non-blocking switch matrix covering the frequency ranges 21.4 MHz +/-4 MHz, 70 MHz +/-20 MHz, or 160 MHz +/- 20 MHz. The basic unit provides up to a 16 X 24 capability in a rugged and compact 7" high chassis. Additional switch blocks may be added to create larger switching systems. The non-blocking feature allows the user to arbitrarily connect any input to any number of outputs. For example, in a multiple receiver/processor system, several receivers can be dynamically connected in real time to a number of IF processors. A flexible control system allows for optional front panel and/or computer control with any standard interface such as IEEE-488, RS-232C or RS-422.

In a configuration up to 16 X 24, all necessary front panel controls, computer control, and power supply are included within a single chassis. For larger configurations, a control unit serves as the master microprocessor/controller for the system. It contains the system front panel and distributes power to the other units. An interunit parallel communications bus provides the required digital communications between the control unit and the other chassis assemblies.

The Model 980 is built in a unique grid structure which permits direct module-to-module plug-in. Extensive automatic built-in test facilities are provided which provide full end-to-end path verification and full system testing. Combined with the modular construction, this makes the unit exceptionally easy to maintain.

SPECIFICATIONS

Center Frequency	21.4, 70 or 160 MHz	Switching Time	200 microseconds maximum
Bandwidth	8 MHz @ 21.4 MHz 40 MHz @ 70 or 160 MHz	Switch Type	Gallium Arsenide
Number of Inputs	16	Style	7" high, 22.5" deep suitable for 19" rack mounting
Number of Outputs	24	Controls	Input Select, Output Select, Enter, Test, Diagnostics, Memory, Configuration, Alt, Reset, Numeric Keypad
VSWR	2:1 nominal	Display	Vacuum-Flourescent
I/O Impedance	50 ohms	Connectors	BNC (SMA optional)
Maximum Input Level	+30 dBm	Power	115/230 VAC, 47-420 Hz, 350 watts
Noise Figure	7 dB typical, 8 dB maximum	Temperature	0° to 50°C, Operating
Output IP2	70 dBm	Humidity	5 - 95% Relative, Non-condensing
Output IP3	30 dBm	Weight	65 lbs
Gain	0 dB nominal		
Gain Flatness	+/- 0.5 dB		
Isolation			
Output to Output	30 dB minimum		
Output to Input	40 dB minimum		

Specifications may vary depending on options selected and are subject to change without notice.

ORDERING INFORMATION

The Model 980 Switch Matrix provides a center frequency of 21.4, 70 or 160 MHz with up to 16 inputs and 24 outputs, a fully integrated built-in test system, and one computer control interface. The number of inputs and outputs and the type of computer control interface must be specified from the options list below. When ordering, please specify:

Option I20	RS-232C Remote Control Interface	Option Xnn	Number of Inputs, where nn is a number in the range 02 to 16
Option I30	IEEE-488 Remote Control Interface	Option Ynn	Number of Outputs, where nn is a number in the range 02 to 24
Option I40	RS-422 Remote Control Interface		