

NEW PRODUCT

FEATURES

- 10 - 1300 MHz
- 16 X 24
- Non-Blocking
- Full Fanout
- Computer Control
- Expandable

DESCRIPTION

The Model 940 VHF/UHF Switch Matrix is an expandable, computer-controlled, non-blocking switch matrix covering the frequency range from 10 to 1300 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 antenna/receiver system, a small number of band-limited antennas can be dynamically connected in real time to a large number of broadband scanning receivers. 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 940 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

Frequency Range	10 - 1300 MHz
Number of Inputs	16
Number of Outputs	24
VSWR	2:1 nominal
I/O Impedance	50 ohms
Maximum Input Level	+30 dBm
Noise Figure	8 dB typical, 9 dB maximum
Output IP2	50 dBm
Output IP3	25 dBm
Gain	0 dB nominal
Gain Flatness	+/- 1 dB
Isolation	
Output to Output	25 dB minimum
Output to Input	30 dB minimum
Switching Time	200 microseconds maximum
Switch Type	Gallium Arsenide

Style	7" high, 22.5" deep suitable for 19" rack mounting
Controls	Input Select, Output Select, Enter, Test, Diagnostics, Memory, Configuration, Alt, Reset, Numeric Keypad
Display	Vacuum-Flourescent
Connectors	BNC (TNC or SMA optional)
Power	115/230 VAC, 47-420 Hz, 350 watts
Temperature	0° to 50°C, Operating
Humidity	5 - 95% Relative, Non-condensing
Weight	65 lbs.

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

ORDERING INFORMATION

The Model 940 Switch Matrix provides a frequency range from 10 to 1300 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		