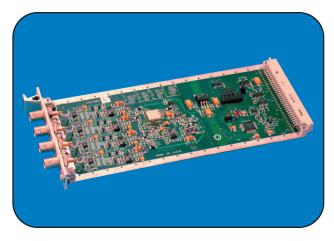
# Time and Frequency Digital Frequency Synthesizer Module (9000 & 9000S) Model: 9021



## Application - Defense (Military) ■ SatCom ■ Wireless

- Range Timing
- Communications Networks
- Satellite Ground Stations
- Test and Measurement Systems



### **General Description**

The Model 9021 Digital Frequency Synthesizer features four Direct Digital Synthesizers each frequency programmable from the front panel keypad or from the RS-232 port over the range of 1 PPS to 50 MPPS for TTL outputs and 1 PPS to 26 MPPS for differential output in 1 Hz steps. Two output driver types are offered and configurations are listed below. Available with single ended and differential drivers.

#### **Specifications:**

Tuning: Front panel key select or RS-232 port

over the range of 1 PPS - 50 MPPS, 1 Hz

step size. Each of the four DDS

individually programmable.

Accuracy: Equal to the Model 9000 internal OCXO.

Jitter: <200 ps rms

Levels, TTL: "0", 0.2 V,  $\pm$  0.2 V Into 50 $\Omega$ : "1", 4.0 V,  $\pm$  0.5 V

Levels, Diff.: >1.5 VInto  $100\Omega$ : >1.5 V

Panel Space: One High

## **Output Options:**

9021-1: Synthesizer with TTL level outputs into

 $50\Omega$ , BNC connectors.

9021-2: Synthesizer with high-speed differential

outputs into  $120\Omega$ , Trompeter BJ-77 type

connector

Specifications subject to change without notice.