

Time and Frequency Modular Distribution Unit Model: 9300B



Application - Defense (Military) ■ SatCom ■ Wireless

- Precise Frequency Distribution
- Communications Networks
- Satellite Ground Stations
- Test and Measurement Systems

Features

- Dual Redundant Frequency Inputs and Power Supplies, Automatic or Manual Switchover on Frequency Inputs
- High Output to Output Isolation, > -90 dBc at 10 MHz
- Low Phase Noise, Distortion, and Spurious
- RS-232 Fault/Status Interface



Description:

The Model 9300 modular distribution system is designed for precise reference frequency distribution applications where redundancy, low phase noise, very high output to output isolation, and low harmonic and spurious content are highly desirable. Frequency response is DC to 10 MHz and depending on frequency distribution module type, up to 18 outputs are available.

The Model 9300B consists of a 1U high metal enclosure (main frame) that contains two passive backplane assemblies and plug-in modules. The Fault Sense Unit (FSU) module plugs into a front position, while frequency distribution, auxiliary I / O, and power supply modules plug into rear locations. All connections are located on the rear panel.

As timing requirements change, the modular design of the Model 9300B easily accommodates upgrading fielded units by adding or changing the appropriate modules (within constraints of available module locations).

Specifications:

FSU Module Slots:	One	Weight:	16 pounds with full complement of modules
DistributionModule Slots:	Three	Finish:	Charcoal (Pantone PMS 433) front panel module - panels and clear anodized aluminum sides, covers, and rear modules
Power Supply Module Slots:	Two	Operating Temperature:	0° C to +50° C, With Modules Other temperature ranges available
Auxiliary I / O Module Slots:	One	Humidity:	95% Relative, Non-Condensing, With Modules
Dimensions:	1.72 high (1U), 19 inches wide, and 18 inches deep (excluding front panel switches and rear panel connectors).		

Model 9300B Modules:

Distribution

Model 9107B-4 Distributes six outputs of selected input frequency from the model 9300B SMA connectors.

Model 9107B-5 Distributes four outputs of selected input frequency from the model 9300B BNC connectors.

Power Supply

Model 9120B Universal AC power input, 100 to 240 VAC, 48 - 62 Hz

Fault Sense

Model 9104B Fault Sense Unit (FSU) monitors status of all installed modules, provides several communications I / O types, alarms, and network interface with Network Time Server

Auxiliary I / O

Model 9103B Furnishes the communications I/O port(s) as well as GPS antenna or 1 PPS inputs

Specifications subject to change without notice.