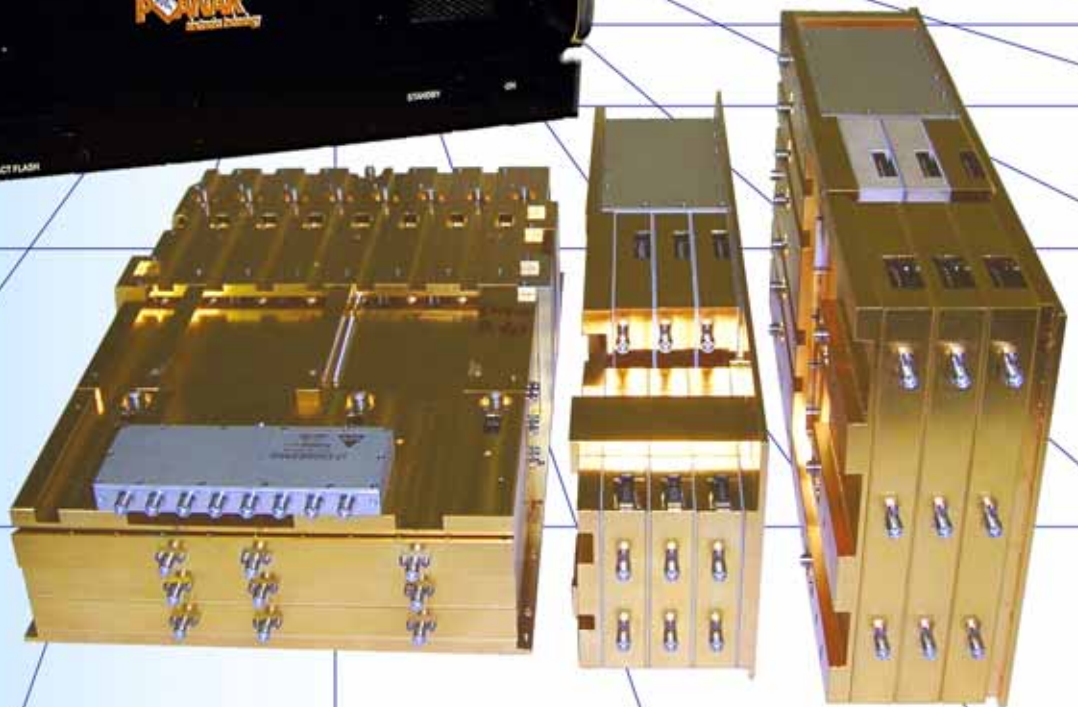




CONFIGURABLE RF SYSTEMS PLATFORM

PLANAR MONOLITHICS INDUSTRIES, INC.

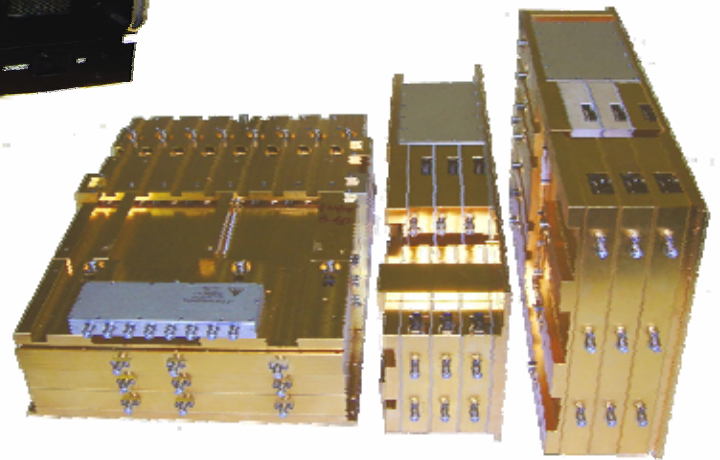


7311-F GROVE ROAD, FREDERICK, MD 21704 USA TEL: 301-631-1579 or 301-662-5019 FAX: 301-662-2029
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Website: www.planarmonolithics.com



CONFIGURABLE RF SYSTEMS PLATFORM

PLANAR MONOLITHICS INDUSTRIES, INC.



KEY FEATURES:

- PLUG & PLAY MODULAR DESIGN
- 19" RACK MOUNT CHASSIS, 6U HIGH, 18" DEEP
- 6" COLOR LCD TOUCH SCREEN DISPLAY
- 500 MHz SINGLE BOARD COMPUTER
- LINUX OR WINDOWS CE OPERATING SYSTEM
- REMOVABLE COMPACT FLASH CARD HOLDS BOOT AND OPERATION SOFTWARE
- COMPATIBLE WITH RS-232, RS-422 / 485, PECL, TTL AND ETHERNET
- FRONT PANEL TROUBLESHOOTING DOWN TO THE COMPONENT LEVEL
- INTERNAL POWER MONITORING OF ALL COMPONENTS
- INTERNAL NOISE SOURCE CALIBRATION FEATURE
- COOLING FANS WITH PERFORMANCE MONITORING
- RF MODULE INTERNAL TEMPERATURE MONITORING
- MILITARY AND COMMERCIAL VERSIONS ARE AVAILABLE

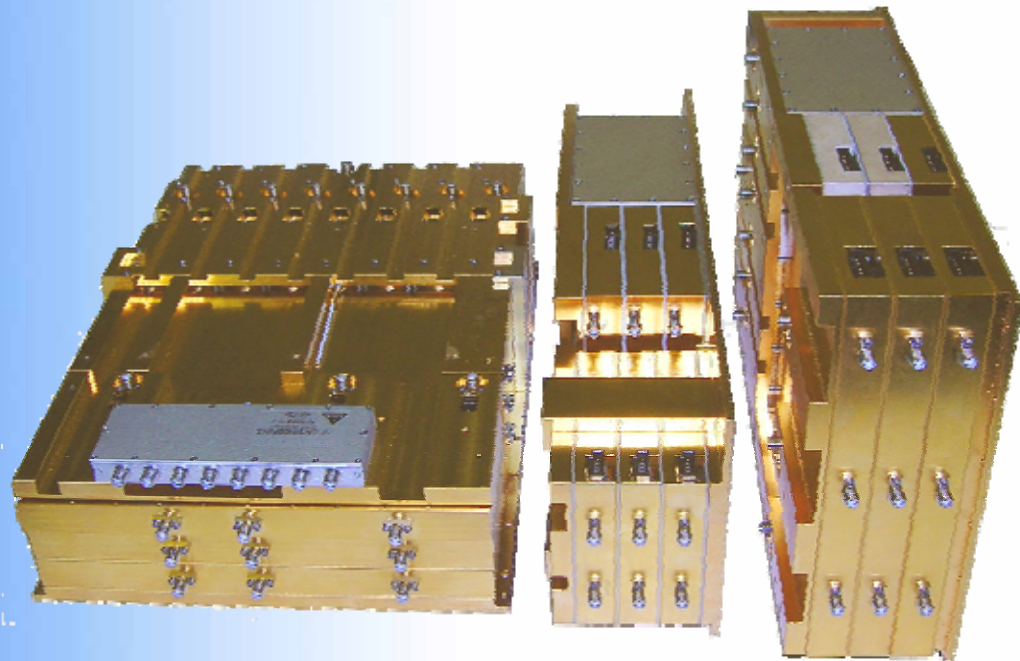


CONFIGURABLE RF SYSTEMS PLATFORM

Planar Electronics Technology, a division of **Planar Monolithics Industries, Inc.**, has developed a new RF System Platform that is user configurable and easily adapted to meet many of today's military and commercial system requirements.

The **PET-VI** features a six-inch color LCD touch-screen display that facilitates easy system control and configuration. The platform contains three plug-and-play field-replaceable modules comprised of a power supply module, a computer module and an RF module.

Examples of the various applications for this configurable RF system can include airborne RF distribution units, broadband switch matrices, and RF attenuation system featuring internal computer-controlled linearization and touch-screen attenuation selection. The **PET-VI System Platform** is also ideal for use with state-of-the-art up- and down-converters with integrated options such as linearized attenuation. In addition, the system can be configured as a high speed frequency synthesizer or a log amplifier with touch-screen log slope selection. With a multitude of functions within its capability, the **PET-VI** RF module can be set up to meet many different functions.



The **PET-VI System Platform** is housed in a ruggedized 19" rack mount chassis, 6U high and 18" deep. The standard six-inch LCD touch-screen display is embedded in the front panel with a compact flash port. All RF input and output connectors are located on the top of the enclosure. Cooling fans with optional speed sensors are mounted on the rear of the RF module and draw cooling air through the module via removable EMI shielded air filters mounted in two ports on the front face.

The RF module features internal temperature monitoring and over-temperature conditions are displayed on the front panel. The cooling fan speeds are also monitored and fan failures are displayed on the front panel as well. In addition, every component is current monitored for failure feedback and any failure of a component is also displayed on the front panel.

The three individual modules can easily be removed from the rear of the assembly for maintenance and/or customization.



CONFIGURABLE RF SYSTEMS PLATFORM

The internal computer module is comprised of a 500 MHz single-board computer which utilizes a Linux or Windows CE operating system. A compact flash memory contains all of the boot up and operation software and can be easily removed from the system for security purposes. The unit's software interface is compatible with RS-232, RS-422 / 485, PECL, TTL, USB-2 and Ethernet protocols.

The plug-and-play modular design easily permits in-the-field repairs and flexibility for custom configurations. The power supply module can contain any required power supply, all of the modules can be changed in minutes also up to 320 individual control lines can be accommodated by the system. The standard RF Input/Output Connectors are SMA or QMA but many other connector types and configurations can also be used.

Figure 1 shows the **PET-VI System Platform** front view and **Figure 2** shows its rear view.



Fig.1 Front view of the **PET-VI System Platform**

The new **PET-VI System Platform** is a truly versatile RF system capable of providing virtually any complex RF function, whether it be for military, airborne or commercial applications. Additional information may be obtained from the Planar Electronics Technology web site:



www.planarelec.com

(Planar Electronics Technology is a division of Planar Monolithics Industries, Inc.)

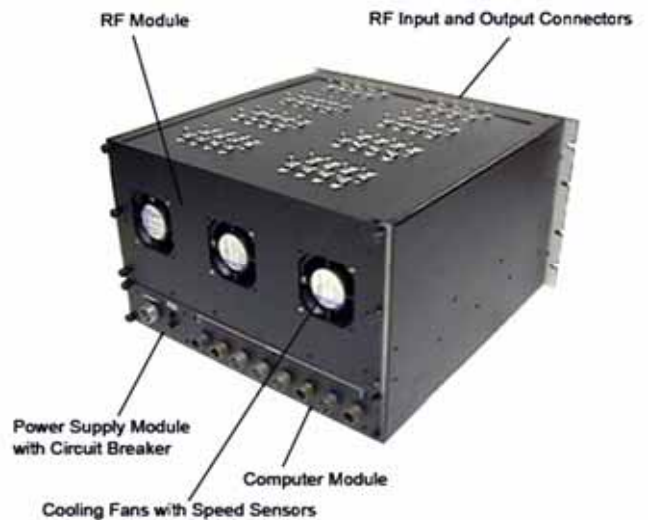


Fig.2 Rear view of the **PET-VI System Platform**

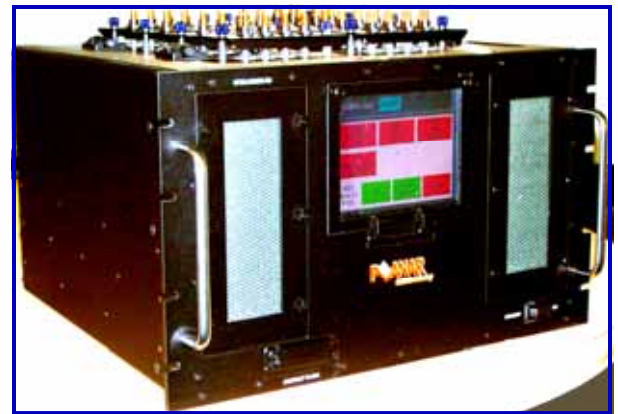
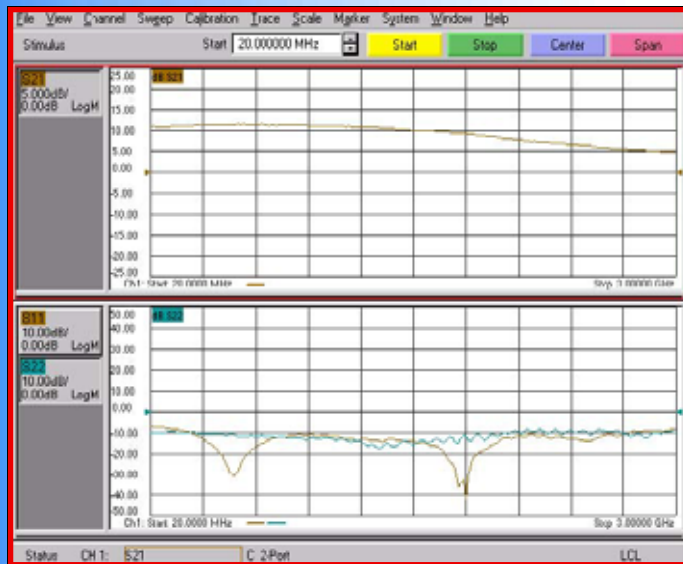


CONFIGURABLE RF SYSTEMS PLATFORM

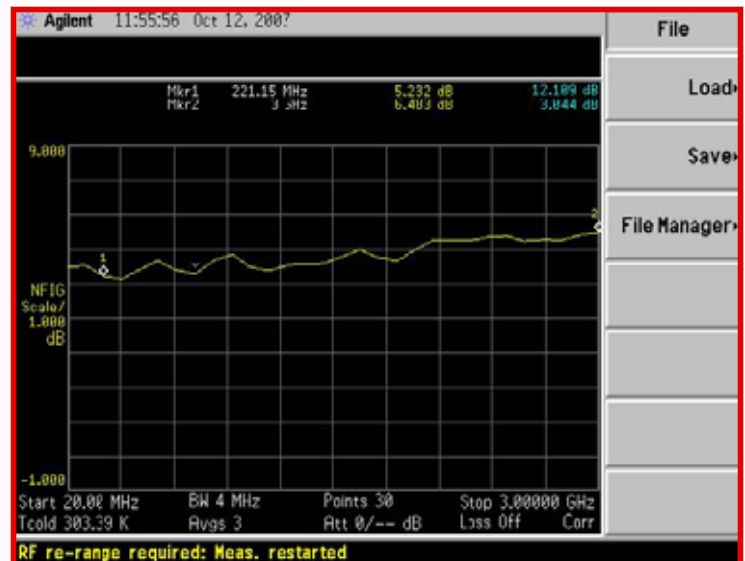
RF DISTRIBUTION UNIT MODEL RFDU-20M3G-NB

KEY FEATURES:

- 20 MHz TO 3.0 GHz FREQUENCY RANGE
- RF SWITCHING AND CONDITIONING
- 21 ANTENNA INPUTS, 156 CONTROL LINES
- HIGH INTERCEPT / HIGH DYNAMIC RANGE SIGNAL ROUTING
 - 65 dBc IP2
 - 55 dBc IP3



SWEPT DATA AND NOISE MEASUREMENT SHOWING TYPICAL PERFORMANCE ACROSS ENTIRE FREQUENCY BAND OF 20 MHz TO 3.0 GHz





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