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VIAVI Solutions 5G

Enabling Australia's Field Technicians to build, troubleshoot and maintain better communications networks.

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FREECALL 1800 680 680

FST-2000 TestPad

User Interface Module (UIM) Version 6

Key Features

- **Identical user interface for all applicable TestPad application modules**
- **Remote GUI allows for remote testing**
- **Web Browser to access the Internet/Intranet**
- **VT100 and Web Browser to provision network elements**
- **Variety of connectivity methods: RS-232, USB, Ethernet, Bluetooth™, 802.11b, analog and wireless modems**
- **Customizable and preconfigured test scripts**

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Global Communications Test & Measurement Company of the Year Award

The FST-2000 TestPad is the user interface for the TestPad family. The combination of a user interface and an application module represents a complete test tool. This architecture provides TestPad users with the flexibility to invest in additional test modules as their testing needs change, allowing them to capitalize on an investment already made.

The FST-2000 has been designed for mobile technicians to improve the overall installation and troubleshooting process by providing features that are enablers for a total process improvement solution. The FST-2000 employs wireless connectivity, along with a local Web Browser and VT100, allows for storage and transfer of files, all of which enable field technicians to complete their jobs more effectively.

Process Improvement

Growth in the telecommunications market has resulted in increased competition in the telecommunications industry. This has caused lower priced services and equipment, higher customer churn and overall margin erosion. Therefore, these market dynamics have forced service providers and manufacturers to focus on initiatives that help them improve their efficiency of service deployment and maintenance. The TestPad family of products is focused on improving the productivity and the test process in today's competitive environment.

Features

– Remote control via Web Browser makes remote testing and technical support straightforward

– Web Browser and VT100 emulator provide access to provisioning systems, while Web Browser also allows for retrieval of information from the Intranet/Internet

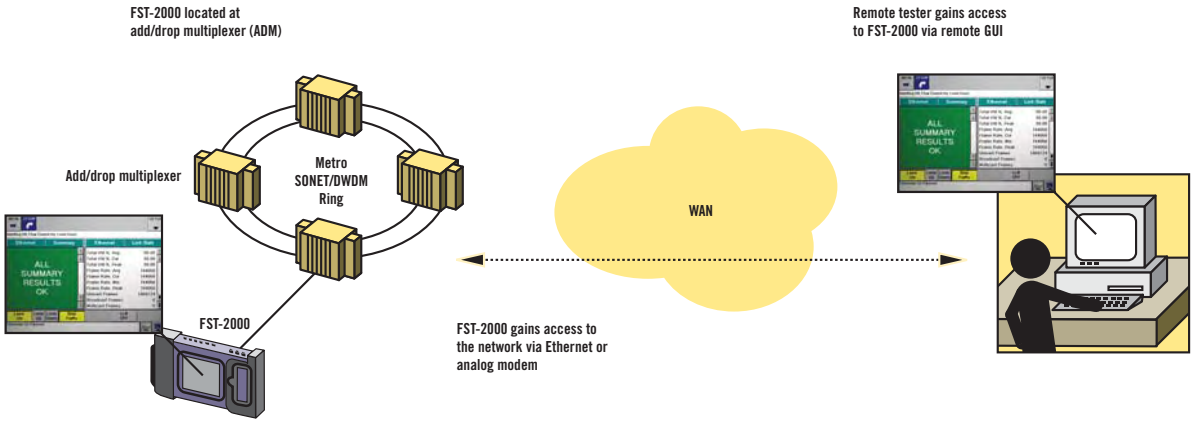
– Support of Bluetooth, RS-232, USB-compatible and 10/100BaseT interfaces provide a choice of local connectivity to the TestPad

– Support of Ethernet, 802.11b, analog and wireless modems (CDPD, CDMA, etc.) allow for various LAN and WAN connectivity options

– Customizable and preconfigured test scripts offer support for closeout tests, ensuring that M&Ps are followed

– Storage and transfer of results provide ability to store files on the test set and transfer them to computers and other network locations via file transfer protocol (FTP)

– Non-display version offers a lower cost solution for customers that want to rely on laptop's display for test configuration and retrieval of results



Application 1 Remote testing

Applications

Remote testing

Since it is not always economical to give every central office (CO) a full support staff, many providers have "dark" or unmanned COs. However, there is still a need to test at these sites, so remote access to test equipment is necessary. In addition, some troubleshooting and/or installation calls require that the test set remains at the customer premise for an extended period of time. The FST-2000 allows centrally located users, such as NOC personnel, to access TestPad modules located at the customer premise and unmanned CO, using an Ethernet connection or analog modem for dialing into the unit. Once access to the test set is acquired, users are able to view/configure the test set's GUI, run tests and store and transfer results. For TestPads that are only used in remote applications, a non-display version is available.

Reduced need for a laptop

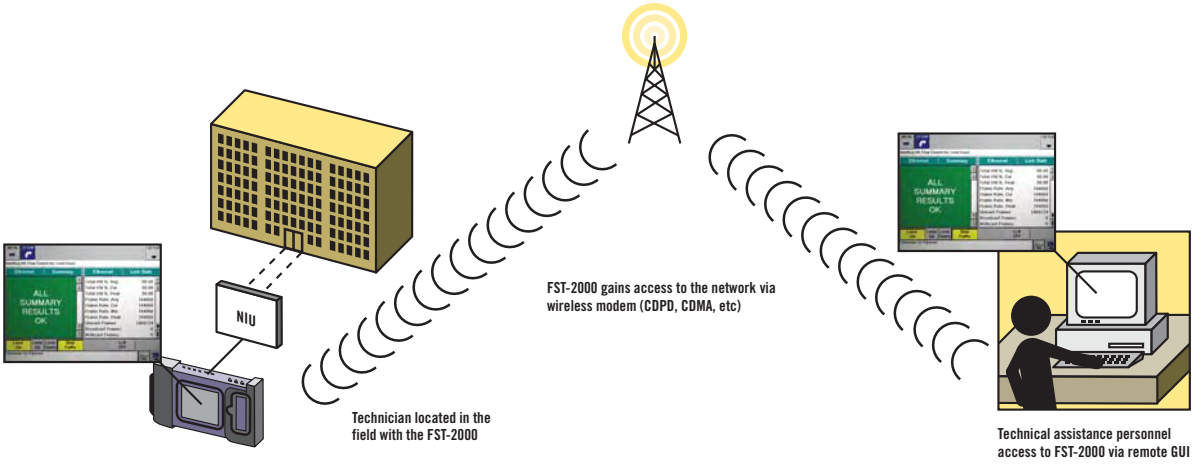
Over the years, laptop use in the field has increased, as technicians have begun using laptops to configure network elements (routers, add/drop multiplexers), customer premise equipment (HTU-Rs), and to store test results. At the same time, the need to reduce the amount of equipment technicians must carry (a laptop and multiple test sets) increases.

The FST-2000 provides a number of PC features most commonly used for testing. The advantage of this approach is two-fold:

– Overall reduction in equipment technician needs to bring to the job site

– Reduction in capital expenditures for managers who are purchasing laptops for these limited applications.

The FST-2000 provides ability to store/transfer results via FTP, print files, retrieve performance information from equipment via VT100, view Internet/Intranet content via local Web Browser, and connect to the network via various wireless and analog modems, as well as Ethernet and 802.11b.

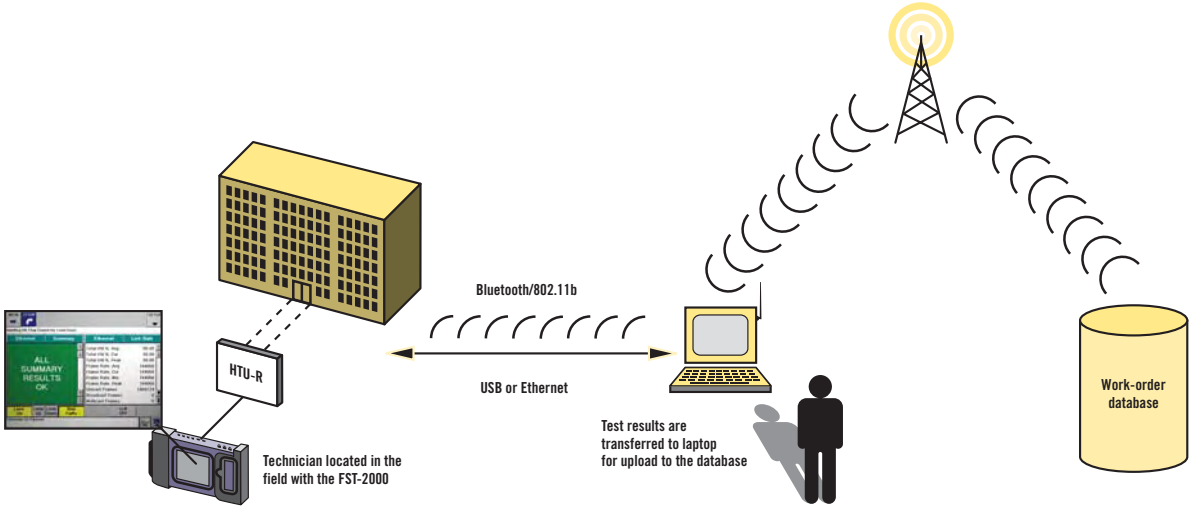


Application 2 Advanced technical assistance

Work-order integration and close-out testing via PC integration

Current mean-time-to-repair (MTTR) and repeat rates are too high, resulting in unsatisfied customers, higher customer churn, and escalated installation and maintenance costs. Such problems may occur because field technicians do not follow M&Ps, are not properly trained to use the test set, and/or are not able to interpret results of their tests.

The FST-2000 allows technicians to use their TestPad modules in an integrated fashion with their laptops. The users are able to connect their laptop to the test set via wired/physical (USB or Ethernet) or wireless (Bluetooth or 802.11b) connection, while using their laptop to connect to the back-office system, access their work-order database and download their work-orders. The FST-2000 scripting feature allows technicians to run automated tests that contain configurations based on the work-orders, which will ensure that M&Ps are followed. Once a test is completed, results can be stored on the FST-2000 and transferred to a laptop. From the laptop, the technician can store results with the work-order and send it back to the work-order database.



Application 3 Work order integration and close-out testing via PC integration

FST-2000 TestPad technical specifications

Physical characteristics

Overall dimensions	6.7 x 11.5 x 2.2 in (with strap), 6.7 x 9.9 x 2.2 in (without strap)
Weight	3.75 lb

Environment

Temperature range	
Operating	32°F (0°C) to 113°F (45°C)
Non-operating	–4°F (–20°C) to 140°F (60°C)
Humidity	10% to 95% relative humidity, non-condensing
Shock	In accordance with IEC 61010-1
Vibration	In accordance with IEC 68-2-64 (alt. IEC 68-2-36)

Power requirements

AC adapter	100-220 at 60 Hz or 200-240 at 50 Hz VAC to 19 VDC, 2.95 Amps
Charging time	Maximum charging current is 2 Amps (powered off) – thus, charging time will depend on battery type and application module
Battery type	10.8 VDC Nickel-Metal-Hydride (NiMH)
Operating time	Depends on the application module

Display*

Graphic LCD color display (Touchscreen)	6.2-inch diagonal viewable area
Resolution	640 x 480 pixels

Product also available in non-display configuration

External Connectors/Interfaces

Input/Output connector	10-pin DIN host connector for USB-like port and RS-232 port (provided via Y-cable) configuration
Power charger connector	5 mm barrel connector
Headset connector	2.5 mm audio jack
PCMCIA slot	2 Type II CardBus Slots (also supports 1 Type III Slot)
Application module connector	DB-25 male connector

LEDs

Power
Charging
Low battery

Ordering information

Part number	Description
2000-V6	Display mainframe
2000-V6-ND	Non-display mainframe
2000-GUI	Remote GUI
2000-WEB	Web browser
2000-VT100	VT100 emulation
2000-BT-MODEM	Bluetooth™ wireless PCMCIA card
2000-LAN	10/100 BaseT PCMCIA card
2000-WLAN	802.11 wireless LAN PCMCIA card
2000-ANLG-MODEM	Analog dial-up PCMCIA modem
2000-USB-PRINTER	USB printer
PR-40B	Serial printer
2000-HEADSET	2.5 mm headset

Note 1: The 2000-V6 includes a color display, kickstand, soft carrying case, power adapter/charger, Y-cable (that provides USB-compatible and RS-232 connector) and a printer cable. An application module must be ordered along with the FST-2000 Version 6 UIM, unless ordering an upgrade for existing modules in the field.
Note 2: Other options and accessories are available. Please call your local sales office or our Customer Care
Note 3: Please call our Technical Assistance Center for the list of supported PCMCIA cards.

Compatible TestPad Applications Modules

TestPad Application Module	Description
FST-2510a	High Speed Optical Analyzer
FST-2310	SONET Services Module
FST-2209	T1/T3 Services Module
FST-2207	T1/T3 Wireless Services Module
FST-2700	Base Station and Air Interface Test Module
FST-2802	Gigabit Ethernet Services Module

Test & Measurement Regional Sales

NORTH AMERICA
TOLL FREE: 1 866 228 3762
FAX: +1 301 353 9216

LATIN AMERICA
TEL: +55 11 5503 3800
FAX: +55 11 5505 1598

ASIA PACIFIC
TEL: +852 2892 0990
FAX: +852 2892 0770

EMEA
TEL: +49 7121 86 2222
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