MTS/T-BERD 8000 Platforms

Thermal Printer Module

2007 FROST & SULLIVAN
Global Communications Test & Measurement Company of the Year Award

Key Features

- **Field replaceable test module for the MTS/T-BERD 8000 optical platform**
- **High speed solution for direct printout in the field**
- **Easy innovative paper roll replacement**
- **Proven and reliable solution based on MTS-5000 experience**

Embedded thermal printer for on-site documentation

The MTS/T-BERD 8000 Thermal Printer Module's automation and rapid printing capability, offers impressive time savings for companies involved in commissioning and locating faults in optical fiber networks.

Combining the Thermal Printer Module with the MTS/T-BERD 8000 test platform, offers a solution for documenting any OTDR, CD, PMD, OSA, or loss measurement results. This solution is housed in a lightweight, handheld, and rugged field instrument.

The flexibility and scalability of the Thermal Printer Module allows for easy upgrades as future measurement and functionality needs expand.

The intuitive user interface offers easy access for novice technicians with advanced analysis capabilities for expert users. The powerful communication capability of the MTS/T-BERD 8000 test platform gives users the option to remotely control the unit, send data directly to the office, or access the internet. To enhance the modularity among JDSU's test platforms, all MTS-5000 modules can be inserted into the MTS/T-BERD 8000.

Rugged field solution

Housed in the field dedicated MTS/T-BERD 8000 platform, printing can be performed in Outside Plant (OSP), Central Office (CO), and harsh environmental conditions. The Thermal Printer Module is a portable, battery-powered instrument that is shockproof and drop tested for complete reliability in the field.

Improved productivity and results reliability

The Thermal Printer Module consists of a high quality, high speed 40 column internal thermal printer. The Module improves user productivity with the ability to instantly deliver a paper copy of each job, via a simple key stroke. This capability allows the technician to provide confirmation of both work quality and timeframe.

On-site documentation

As with all MTS/T-BERD 8000 compatible test and utility modules, the Thermal Printer Module is battery operated. This functionality enables the technician to provide a paper copy of the test results without the need of an external power source.

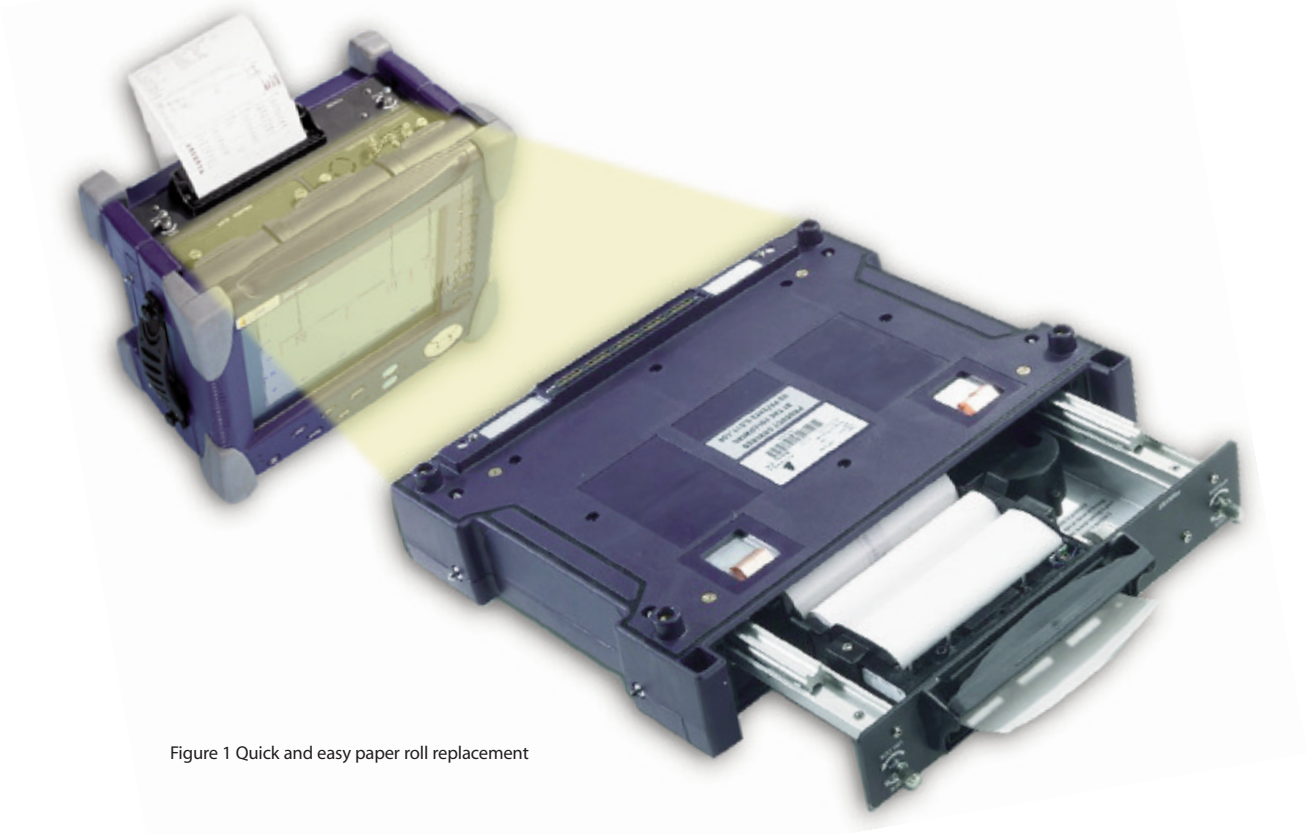

Figure 1 Quick and easy paper roll replacement

Technical Specifications – MTS/T-BERD 8000 Base unit (typical at 25°C)

General specifications

Display

TFT color, 10'4 inches, LCD 800x600

TFT color, 10'4 inches, LCD 800x600, High Visibility

Touch screen TFT color, 10'4 inches, LCD 800x600, High Visibility

Storage

Internal memory	16 MB
Hard disk (optional)	min 20 GB (optional)
Floppy disk drive (optional)	3.5 inches, MS DOS compatible
CD read/write (optional)	

Input/Output interfaces

RS232C, 2xUSB, VGA, RJ11 Modem (optional), RJ45 Ethernet.

Power supply, battery

Battery type	standard removable Li-Ion batteries
Operation time	up to 16 OTDR hours with two batteries and standard display, Telcordia GR-196-CORE
Internal charger	yes
Charging time	<3 hours per battery
Trickle charge	Yes
DC Input	19 to 25 V
Power supply, AC/DC adapter	Input 100-240 V, 50-60 Hz, 1.8 A, Output 19V DC / 3.1 A

Size

Mainframe only (with back plate)	320x265x55mm (11.6x10.4x2.1 inches)
Mainframe + 1 plug-in module + Battery pack	260x320x116mm (10.24x12.6x4.5 inches)

Weight

Mainframe only (with back plate)	2.9 kg (6.4 lbs)
Mainframe + 1 plug-in module + Battery pack (with one battery)	5.4 kg (11.9 lbs)

Optical interfaces (optional)

Power meter

Power level	+10 to –55 dBm
Calibrated wavelengths	850, 1310, 1550nm
Connector type	Universal push/pull

Talk set

Wavelength	1550nm +/-20nm
Dynamic Range	>45 dB range,
Function	with data/file transfer,
Laser safety	Class 1 laser
Connector type	Field interchangeable

VFL

Wavelength	635nm +/-15nm
Output power level	< 1 mW
Laser safety	Class 2 laser
Connector type	Universal push/pull

CW light source

Wavelentgths (selection)	1310/1550/1625 nm
Output power level	-3.5 dBm
Spectral width	<5 nm
Stability in 15 min	± 0.02 dB
Stability in 8 hours	± 0.2 dB
Laser safety	Class 1 laser
Connector type	Field interchangeable

Video inspection scope

Magnify	250x or 400x, through USB port

Environmental specifications

Temperature range

Operating on mains (no options)	-20°C to +50°C (-4°F to 122°F)
Operating, all options	0°C to +40°C (32°F to 104°F)
Storage	-20°C to +60°C (-4°F to 140°F)

Humidity

95% without condensing

EMI/ESD

CE compliant

E82Printer Module technical specifications (Typical at 25°C)

Printer type	Thermal printer
Quality	832 dots/line
Paper width	112 mm paper width

Ordering information

Base instrument	
MTS/T-BERD 8000 platform with battery pack	EM8000bt
2-slot receptacle	E8100
High Visibility TFT Color Display	E80HVCol
High Visibility Touchscreen TFT Color Display	E80HVTCol
Hard disk drive	E80Hdisk
Extractable Floppy disk drive	E80FD
Extractable R/W CD ROM drive	E80CDRW
Built-in PSTN modem	E80MDM
VFL with UPP connector	E80VFL
Optical talk set	E80TS
Optical power meter with UPP connector (2.5 mm and 1.25 will be provided as standard)	E80PM
Optical Loss test set with talk set 1310/1550/1625 nm	E8036LTSTS
Main accessories	
External keyboard	E80KeyB
Additional Li-Ion rechargeable battery	E80LiIon
Wrap around soft carrying case for MTS8000 and 2 plug-ins receptacle configuration	E80Scase1
Soft carrying Case for long configuration	E80Scase2
Soft carrying case for one large module configuration	E80Scase3
Hard transit case for long configuration	E80Hcase
Hard carrying case for small configuration	C80Hcase5
Application software	
Optical FiberTrace Software (for post-analysis)	EOFS100
Optical FiberCable Software (for acceptance report generation)	EOFS200

Universal optical connectors

EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCFC, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, EUNIAPCLC

For more information on test adapters, cables, and fiber optic couplers, please refer to the separate datasheet entitled "JDSU Fiber Optic Test Adapters and Cables".

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. JDSU reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein. JDSU makes no representations that the products herein are free from any intellectual property claims of others. Please contact JDSU for more information. JDSU and the JDSU logo are trademarks of JDS Uniphase Corporation. Other trademarks are the property of their respective holders. ©2007 JDS Uniphase Corporation. All rights reserved. 30137114 501 0707 MTSTHERMALPRINTER.DS.FOP.TM.AE

Test & Measurement Regional Sales

NORTH AMERICA
TEL: 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
FAX: +49 7121 86 1222

www.jdsu.com/test