

# VIAVI

## T-BERD/MTS-4000 V2

### Optical Test Platform

Modular Test Platform designed for the installation, turn-up and maintenance of fiber optic networks

Telecommunication network topologies and technologies are evolving rapidly to respond to increased bandwidth requirements. Installers and service providers must equip technicians with scalable and easy-to-use test tools that addresses a wide range of up-to-date optical test applications quickly and accurately under all field conditions.

The VIAVI T-BERD®/MTS-4000 V2 is the optical test platform engineers, technicians, installers and contractors can rely on, providing:

- An easy-to-use solution with intuitive icon-based graphical user interface (GUI) and multi-touch screen requiring minimal training
- A compact platform with field-replaceable modules covering multiple optical test functions (OTDRs, optical power and loss testing, Optical Spectrum Analyzer (OSA), etc.) that enable complete optical network qualification.
- Optimum workflow and operation within the platform or through the cloud with VIAVI StrataSync and SmartAccess Anywhere



T-BERD/MTS-4000 V2

#### Key Benefits

- Certify the fiber physical layer of FTTx/PON, access, metro and enterprise networks
- Two field-replaceable modules increase flexibility
- Smarter and faster field testing with tablet user interface
- Advanced cloud support and remote connectivity

#### Features

- Dual-modular handheld platform
- Large 9-inch high visibility touchscreen with permanent function keys
- Essential tools integrated and supported in the platform (visual fault locator, optical power meter, optical microscope and talkset)
- Flexible connectivity; Ethernet, WiFi, Bluetooth
- Smart Access Anywhere (SAA) for remote control and field tech support
- VIAVI TPA™ (Test Process Automation) enabled — centralized cloud based asset, configuration, test data and workflow management with Job Manager option

#### Applications

- Fiber optic test, qualification, certification and reporting



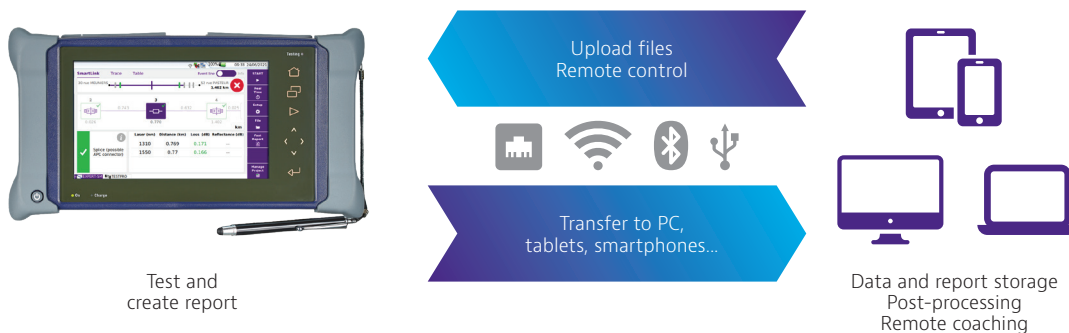
## Dual Slot Modular Platform for Maximum Scalability and Usability

The T-BERD/MTS-4000 V2 platform is a highly integrated optical test platform with two module bays, a large 9-inch color touchscreen with multi-touch capability, enabling the use of many optical test functions

It supports the range of VIAVI fiber analysis tools including OSA, OTDR, bidirectional insertion loss/ORL, light source, power meter, and connector inspection.

The dual module slot design delivers an all-in-one optical network test solution with a combination of key optical functions, for example:

- For MPO fiber qualification: integrated OTDR and MPO switch test platform
- For CWDM/DWDM network deployment: integrated CWDM/DWDM OTDRs and OSA test platform
- For full CWDM network deployment: full 18 CWDM wavelengths OTDR test platform



## Advanced connectivity, workflow and reporting capabilities

The T-BERD/MTS-4000 V2 supports advanced connectivity via wireline, wireless and the cloud. Test workflow, reporting and asset management is made easier with StrataSync while SmartAccess Anywhere (SAA) enables remote control, from a PC browser or smartphone/tablet app, for launching tests or providing support to techs on site. Instruments and techs can also talk to each other using the fiber under test or separate comms fiber via the optical module in use or talkset.

## T-BERD/MTS-4000 Dual-slot Modular Platform Overview

① 9-inch high visibility touchscreen

② On/off button

③ On indicator

④ Charge indicator

⑤ Home button

⑥ Result/Setup/File button

⑦ Start/Stop

⑧ Direction keys

⑨ Validation/Enter key

⑩ Testing indicator

⑪ Two field interchangeable modules

⑫ AC/DC input

⑬ High-speed Ethernet

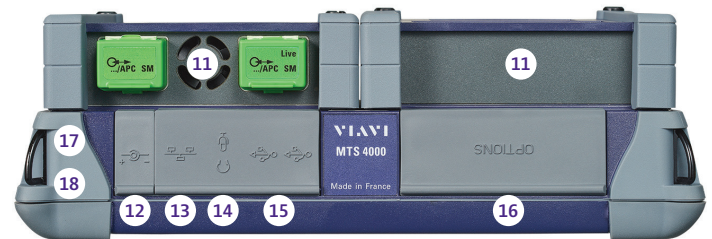
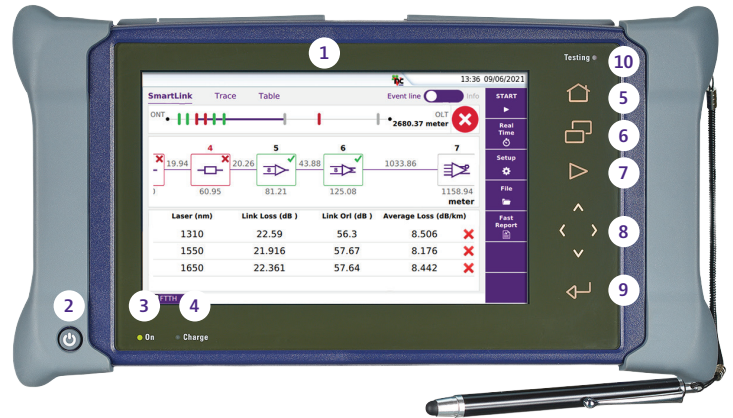
⑭ Headset

⑮ Two USB 2.0 ports

⑯ Options (VFL, Power Meter, Talkset, 32Gb internal memory)

⑰ Battery

⑱ WiFi/Bluetooth



## Specifications (typical at 25°C)

<b>General Description</b>	
Display	9-inch (23 cm) capacitive high visibility touchscreen – 800 x 480 LCD
Interfaces	2 x USB 2.0 ports, 1 x RJ45 LAN 10/100/1000 Mbit/s port, 1 x 2.5 mm female jack port (headset), built-in WiFi 802.11 b/g/n and Bluetooth 4.2 (optional)
Storage	1 GB standard (20,000 OTDR traces typical) 32 GB with extended memory (optional)
Battery	Rechargeable Lithium-Ion battery, up to 16 hours of operation <sup>1</sup>
Power supply	AC/DC adapter, input 100-250 V – 50-60 Hz, output 12-15 V DC, 3.7 A
Electrical safety	EN/IEC 60950-1 compliant
Size ( WxHxD)	Mainframe with 2 modules: 282 x 153 x 97 mm (11.1 x 6 x 3.8 inch)
Weight (battery included)	Mainframe only: 1.4 kg (3 lb) Mainframe with one OTDR module: 2.3 kg (5.1 lb)
Operating temperature	-20 to +50 °C (-4 to +122 °F) <sup>2</sup>
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Humidity (non condensing)	5 to 95%
<b>Built-in Broadband Power Meter Option (InGaAs)<sup>3</sup></b>	
Tone detection	270 Hz, 330 Hz, 1 kHz, 2 kHz
Power range	-60 to +10 dBm
Measurement accuracy	±0.2 dB <sup>4</sup>
Wavelengths	Calibrated: 850/1310/1490/1550/1625/1650 nm Selectable: 800 to 1650 nm in 1 nm step
Display resolution	0.01 dB/0.01 nW
Connector type	2.5 mm Universal Push/Pull (UPP) (1.25 mm UPP adapter optional)
<b>Built-in Visual Fault Locator (VFL) Option</b>	
Wavelength	650 nm ±10 nm
Emission modes	CW, 1 Hz
Laser safety class	Class 2 per IEC 60825-1:2014 and FDA21 CFR Part 1040.10 standards
Connector type	2.5 mm UPP adapter (1.25 mm UPP adapter optional)
<b>Built-in Talkset Option</b>	
Dynamic range	32 dB <sup>5</sup>
Wavelength	1625 nm
Laser safety	Class 1 per IEC 60825-1:2014 and FDA21 CFR Part 1040.10 standards

<sup>1</sup>Per Telcordia GR-196-CORE

<sup>2</sup>With all mainframe options: 0 to +40 °C (+32 to +104 °F)

<sup>3</sup>At 25 °C, after 20-minute warm-up

<sup>4</sup>At -30dB. At calibrated wavelengths (except 1650 nm)

<sup>5</sup>With a FC/PC connector

## Ordering Information

Each mainframe comes with a Lithium-Ion battery, an AC/DC adapter/charger (with the country-specific power cord to be specified) and a hand strap. If only one optical test module is ordered, the mainframe is shipped with a dummy module attached to the second slot.

<b>Mainframes and Built-in Options</b>	
T-BERD/MTS-4000 Platform with High Visibility Touchscreen	ETB4000HVT/EM4000HVT
AC/DC Adapter/Charger	E40PWxxx*
Built-in Broadband Power Meter option	E40PM
Built-in Power Meter and VFL options	E40PMVFL
Built-in Talkset and Broadband Power Meter options	E40TSPM
Built-in WiFi/Bluetooth/External WiFi/Bluetooth USB dongle	E40WIFIBLU2/EWIFIBLUE
32 GB Extended internal memory	EXTMEM32GB
<b>Accessories</b>	
Spare Lithium-Ion battery	ELIION9C
Stylus for capacitive touchscreen	EHVTSTYLUS
Screen protector	ESCREENPROTECTOR
Additional hand strap	E40HANDSTRAP1
Wrap-around/glove soft case	E40GLOVE2
Backpack/large soft carrying case	EBACKPACK-CASE1
Hookstrap**	E40HOOKSTRAP1
Shoulder harness**	EHARNESS
Hardcase for one T-BERD/MTS-4000 platform and accessories	EHCASE6
Hardcase for two T-BERD/MTS-4000 platforms and accessories	EHCASE4X2
12 V car lighter adapter	E40LIGHTER
USB GPS receiver	EUSBGPSRECEIVER
1.25 mm UPP adapter for built-in VFL option	FFL-050-U12
1.25 mm UPP adapter for built-in Power Meter option	EUPP125PM
<b>Software Options (Other software options available depending on optical test modules)</b>	
SmartAccess Anywhere - Remote Access and Control from Anywhere	SAA-L2
GPS - Embedded GPS coordinates into test files and reports	EGPS
Password Protection - To prevent resell/use of stolen units	EPASSWORDPROTECT
Job Manager - To deploy test plan procedures to simplify and automate tests.	EJOBMANAGER

\*xxx = AU for Australia, CH for Switzerland, DK for Denmark, E for Europe, IL for Israel, IND for India D, IT for Italy, JP for Japan, MC for Europe and UK, SA for South Africa, UK for UK, US for USA

\*\* Can be attached to the mainframe or to the glove case

## VIAVI TPA™ (Test Process Automation)

Allows your team to deliver expert-level test results and close projects on the first try, every time. VIAVI TPA is a closed loop test system that optimizes workflows, eliminates manual, error prone work and automates immediate data reporting for job close out, team progress updates and network health analytics. Execute jobs efficiently to ensure high quality network builds, rapid turn-up/activation and enhanced operational visibility.

## VIAVI Care Support Plans

### Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: [viavisolutions.com/viavicareplan](https://viavisolutions.com/viavicareplan)

## Features

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
 BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
 SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
 MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	*5-year plans only



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