

Test and Measurement Solutions



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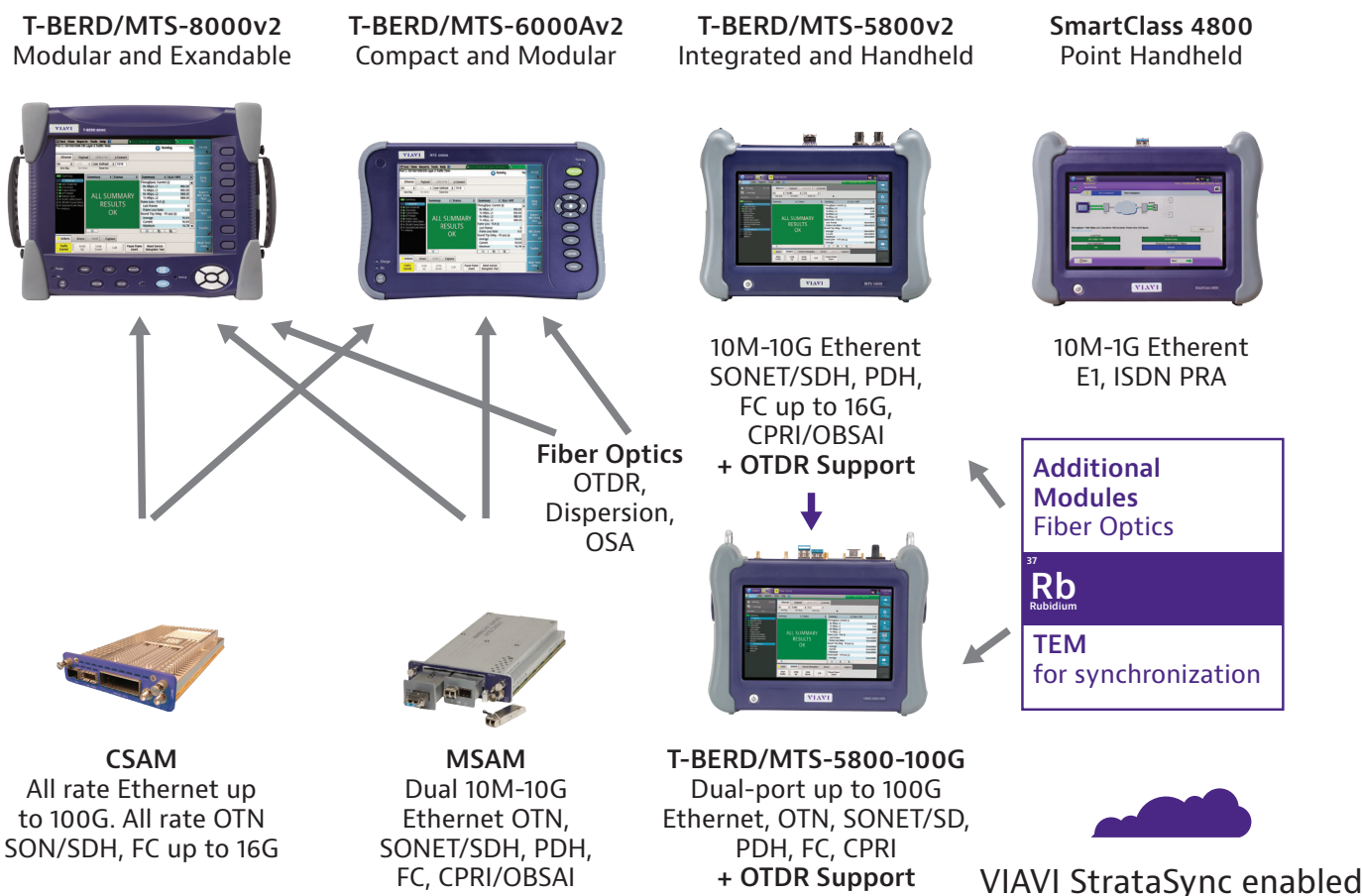
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Multiprotocol Network Test

Ensure peak performance with our portfolio of leading multi-protocol testers and expansion modules covering a range of tests from Ethernet to fiber and timing. Lightweight, versatile and easy-to-use – our T-BERD/MTS family of testers and modules bring efficiency and speed to deployments and troubleshooting.

The T-BERD/MTS Ethernet-Transport Family: SmartClass 4800, T-BERD/MTS-5800, 5800-100G, T-BERD/MTS-6000A, T-BERD/MTS-8000v2 handheld network tester are the tools that network technicians and engineers need to install and maintain their networks. It supports both legacy and emerging technologies to address network applications including metro/core, data center interconnect, and business services test applications.



SmartClass 4800

Tool of choice for all-in-one service testing

Optimized for business services installation teams, the SmartClass 4800 is a highly efficient, modern tool for ensuring data and voice services achieve expected key performance indicators (KPI).

With the ability to test electrical and optical Ethernet links as well T1 and E1 interfaces, the SmartClass 4800 allows technicians to test all common business class interfaces. Technicians can test the quality of voice services regardless of whether they are delivered via VoIP or PRI.

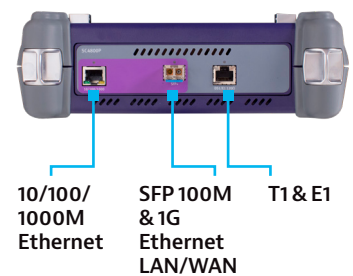
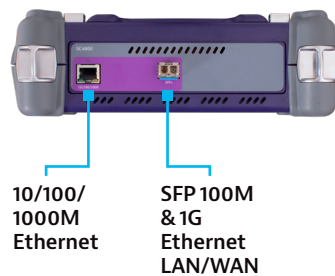
The industry's smallest handheld instrument can test throughout the service life cycle, including service activation, troubleshooting, and maintenance. Advanced Ethernet test features such as TrueSpeed per RFC 6349 and, J-Profiler help field technicians test their networks faster and more accurately than ever before.

Key Features

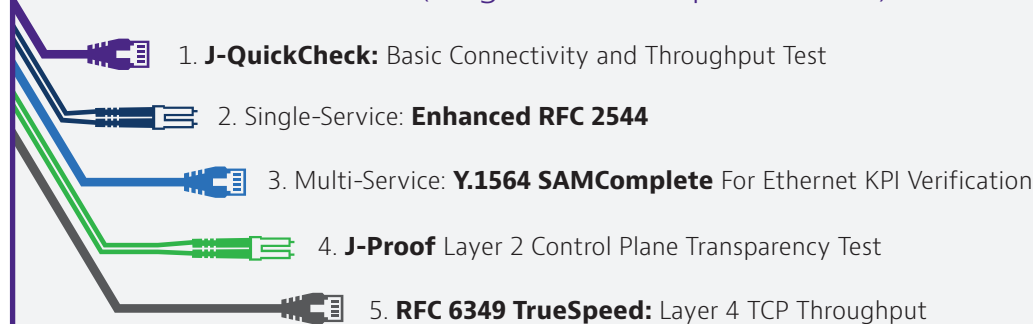
- Electrical (10/100/1000) and optical (100M, 1GE) Ethernet interfaces
- Automated, enhanced RFC 2544 and SAMComplete testing per ITU-T Y:1564
- Integrated burst testing approach per MEF 34 and RFC 6349 TrueSpeed™ TCP throughput testing
- Compatible with VIAVI fiber microscopes, and optical power meters

Applications

- Business services installations, service activation and troubleshooting
- Mobile and backhaul characterization, validation, and troubleshooting



Best Practice Workflow (Single and Multiple Services):



This test workflow is applicable to Ethernet Business Services and Wireless Backhaul network topologies; a typical Ethernet business service network topology is shown in the following diagram.

	10/100/1000 Mbps Electrical	1 Gbps Optical	T1/E1/ISDN PRA	Optics Singlemode	RFC-2544 Y - 1564	Multiple Stream
SC4800-GIGE - FT1	✓	✓	✗	1310 nm LX	✓	✓
SC4800P-GIGE-E1 - FT2	✓	✓	✓	1310 nm LX	✓	✓

T-BERD/MTS-5800 1GE to 10 GE Handheld Network Tester

The T-BERD/MTS-5800 tester is the industry's smallest 10G handheld instrument and supports testing throughout the entire service life cycle including fiber characterization, service activation, troubleshooting, and maintenance.

The T-BERD/MTS-5800 handheld network tester is the one tool that network technicians and engineers need to install, turn-up, and maintain their networks. It supports both legacy and emerging technologies required to handle various network applications including metro/core, mobile backhaul, and business services installations. Advanced Ethernet test features such as TrueSpeed per RFC 6349, J-Profiler™, Wirespeed capture/decode, and automated J-Mentor, help field technicians test their networks faster and more accurately than ever before.



VIAMI StrataSync enabled

Features

- Fully-loaded TDM/PDH to dual 10 G Ethernet, SONET, SDH, Fiber Channel, and OTN support
- Automated, enhanced RFC 2544 and SAMComplete testing per ITU-T Y.1564
- Integrated burst testing approach per MEF 34 and RFC 6349 TrueSpeed™TCP throughput testing
- Integrated Timing/Synchronization testing including PTP/1588v2, SyncE, Wander, and One Way Delay test
- Fronthaul Testing CPRI/OBSAI Layer 1/Layer 2 and emulation of Baseband and Remote Radio units
- Single- and dual-port versions
- Compatible with VIAVI 4100-Series OTDR modules and Smart Link Mapper™, fiber microscopes, and optical power meters
- BBU emulation
- RFoCPRI

Applications

- Mobile and backhaul characterization, validation, and troubleshooting
- Converged Ethernet/IP network testing and troubleshooting at 10 Mbps to 10 G interfaces
- Fiber link characterization and troubleshooting
- Installation and maintenance of OTN and legacy SONET/SDH and TDM/PDH networks
- Installation and maintenance of wireless synchronization technologies such as PTP/1588v2 and SyncE
- Remote radio head (RRH) testing at the wireless basestation
- Test RRH health from the bottom of the tower via CPRI links and BBU emulation
- Identify PIM and interference issues from an optical test access point (RFoCPRI)

T-BERD/MTS-5882 Handheld Tester

The T-BERD/MTS-5882 is a portable test unit designed to make the cell-site technician's life easier. The compact tester helps cell site technicians and contractors complete a broad range of cell site tests and generate a consolidated test report within minutes, saving valuable testing and administrative hours.

The T-BERD/MTS-5882 offers a breadth of tests combined with the work-saving features of Job Manager, an app designed to make testing and reporting easier. With Job Manager you can enter test configurations at a central web form and consolidates the test results and reporting with a push of a button, making them available in the cloud.



Key Features

- Fully-loaded TDM/PDH to dual 10 G Ethernet, SONET, SDH, Fiber Channel, and OTN support
- Automated, enhanced RFC 2544 and SAMComplete testing per ITU-T Y.1564
- Integrated burst testing approach per MEF 34 and RFC 6349 TrueSpeed™ TCP throughput testing
- Single- and dual-port versions
- Compatible with VIAVI 4100-Series OTDR and COSA modules with Smart LinkMapper™, fiber microscopes, and optical power meters
- Job Manager for easy, automated test configurations and reporting

Applications

- Mobile and backhaul characterization, including microwave links, validation, and troubleshooting
- Converged Ethernet/IP network testing and troubleshooting at 10 Mbps to 10 G interfaces
- Fiber link characterization and troubleshooting
- Installation and maintenance of OTN and legacy SONET/SDH and TDM/PDH networks
- Remote radio head (RRH) testing at the wireless base station
- PIM and interference testing over optical links (RFoCPRI)
- Next-generation Fronthaul eCPRI

TEM Timing Module

The rapid, dynamic adaptation and coordination of Radio Access Networks (RAN) will require more accurate synchronization from one generation to the next. The VIAVI Timing Extension Module (TEM) helps network operators maintain precise synchronization which results in an excellent customer experience.

Together with the T-BERD/MTS-5800, the field-optimized TEM delivers industry-leading accuracy to field portable timing and synchronization measurements. It features a modern 72 channel GNSS antenna input and an extremely accurate Rubidium based miniature atomic clock (MAC) to ensure nanosecond-precise measurements.



Key Features

- Verifies Ethernet and IP one-way delay network latency
- Confirms frequency, phase, and time synchronization with near-lab grade accuracy in the field
- Proves out GNSS antenna installations and faults
- Supports multiple GNSS constellations including GPS, GLONASS, BeiDou, SBAS, and QZSS
- Enable fast and accurate satellite acquisition with a modern 72 channel GNSS receiver
- Supports multiple 1 PPS and 10 Mhz inputs and disciplined outputs
- Performs 1588v2 (PTP) measurements including nanosecond-accurate PDV and time measurements
- PTP grand master (PRTC) emulation
- Nanosecond accurate one-way delay 1/10 GE measurements

T-BERD/MTS-5800-100G

The T-BERD/MTS-5800-100G handheld network tester is the one tool that network technicians and engineers need to install and maintain their networks. It supports both legacy and emerging technologies to address network applications including metro/core, data center interconnect, and business services test applications.

The dual-port 100G test instrument can test throughout the life cycle of a network, including fiber testing, service activation. Equipped with latest technology interfaces SFP/SFP+/SFP28 and QSFP+/QSFP28/CFP4, the 5800-100G provides the investment protection. With advanced test features such as Optics Self-Test, Ethernet line rate capture/decode, OTN Check, technicians can test their networks faster and more accurately than ever before.

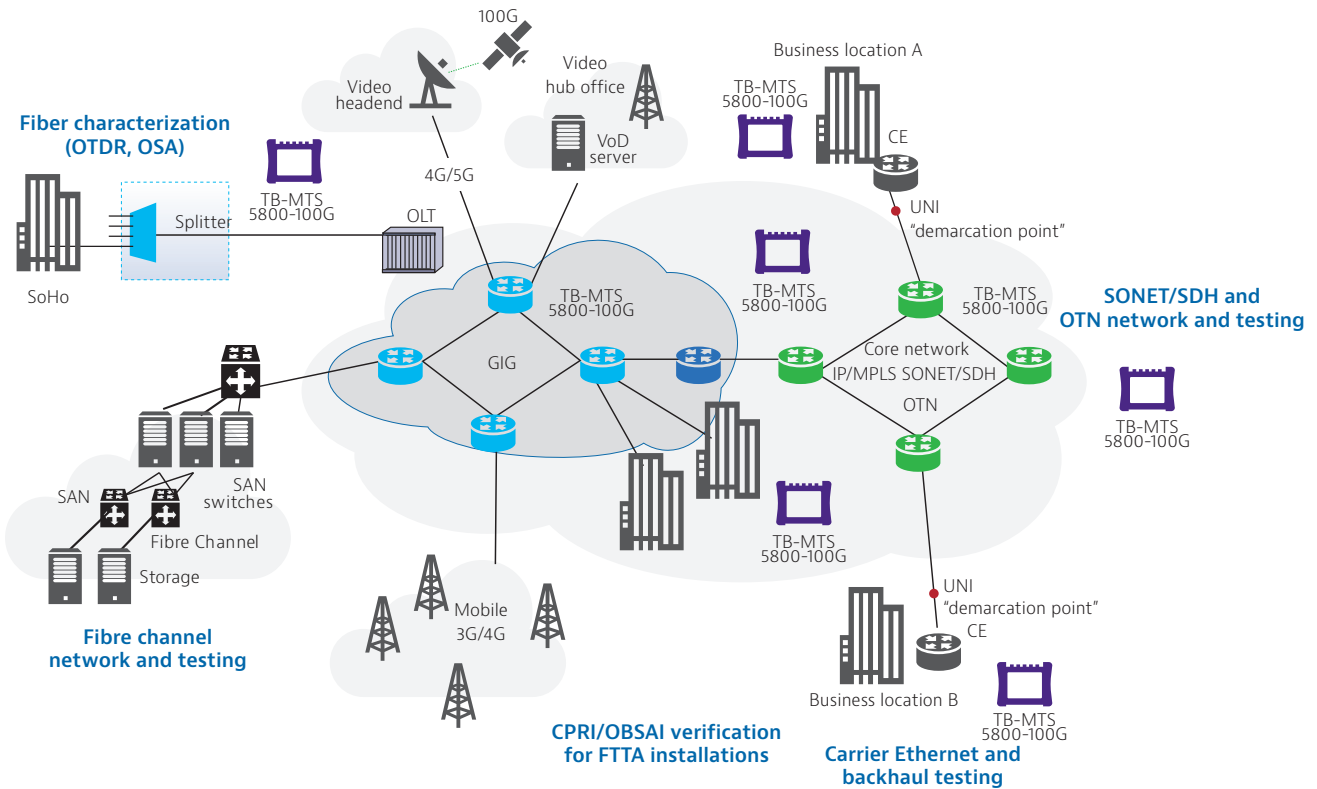


Key Features

- Supports comprehensive rate testing ranging from DSx/PDH (1.5M/2M) through to 112G OTU4
- Saves time with the industry's fastest RFC 2544 and Y.1564 SAMComplete™ Ethernet service-activation test including nanosecond-accurate latency measurements. Also supports RFC 6349 TrueSpeed
- Ensures QSFP+/QSFP28 and CFP4 modules run error-free with the field optimized Optics Self-Test
- Provides speed and efficiency in testing OTN service activation with the OTN Check workflow automated script
- Compatible with 4100-Series OTDR and COSA modules with Smart Link Mapper™, fiber microscopes, and optical power meters
- Tests synchronization and timing using the TEM (Timing Expansion Module)

Applications

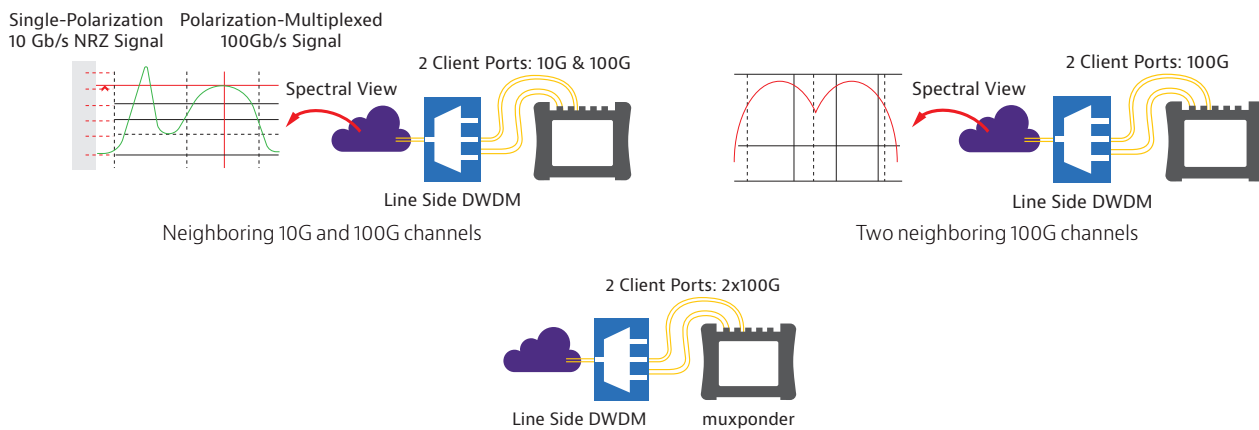
- Converged Ethernet/IP network testing at 10 Mbps to 100 G for datacenters and core / metro
- Fiber link characterization and troubleshooting
- Installation and maintenance of OTN and legacy SONET/SDH and DSx/PDH networks
- Mobile and backhaul characterization, validation, and troubleshooting including sync
- 5G-ready



T-BERD/MTS-5800-100G: Dual Port testing

5800-100G or 5800v2 can run 2 independent tests at any rate

- Run Bit Error Rate or RFC 2544/Y.1564 test is run to stress test a link
- Specific reasons to do this in high-speed DWDM networks



Unit	Ethernet					SONET/SDH			PDH			OTN				
	10, 100, 1000 Mbps Electrical and 1 G Optical Ethernet (C510M1GE)	10GE LAN (C510GELAN) 10GE WAN (C510GEWAN)	25GE (C525GE)	40 GE (C540GE)	100GE (C5100GE)	OC-3, OC-12, STM-1, and STM-4 (C5LSSONSDH)	OC-48 and STM-16 (C525GSONSDH)	OC-192 and STM-64 (C510GSONSDH)	DS1 and E1 (C5E1DS1)	DS3 and STS-1e (C5DS3STS1)	E3, E4, and STM-1e (C5E3E4STM1E)	OTU1 (C5OTU1)	OTU2 (C5OTU2)	OTU2e (C5OTU2E)	OTU3 (C5OTU3)	OTU4 (C5OTU4)
T-BERD/MTS-5811P	■	■				■	■	■	■	■	■					
T-BERD/MTS-5822P	■	■				■	■	■	■	■	■	■	■	■		
T-BERD/MTS-5882	■	■				■	■	■	■	■	■	■	■	■		
T-BERD/MTS-5800-100G	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Unit	Fiber Channel					Optical Line Rate Testing	CPRI								eCPRI	OBSAI			Dual-Port Option								
	1, 2, and 4 GFC (C51G2G4GFC)	8GFC (C58GFC)	10GFC (C510GFC)	16G FC (C516GFC)	32G FC (C532GFC)		3.072 Gbps (C5L5L131G)	9.8 Gbps (C5H5L198G)	614 Mbps (C5614MCPRI)	1.2 Gbps (C512GCPRI)	2.4 Gbps (C524GCPRI)	3.072 Gbps (C53GCPRI)	4.9 Gbps (C549GCPRI)	6.1 Gbps (C561GCPRI)		9.8 Gbps (C598GCPRI)	10.1 Gbps (C510GCPRI)	10 Gbs	25 Gbps	768 Mbps (C5768MOBSAI)	1.5 Gbps (C515GOBSAI)	3.072 Gbps (C53GOBSAI)	6.1G OBSAI (C561GOBSAI)	Low Speed Rates (C5DUALPORT)	10 G Rates (C5DUAL10G)	40 G Rates (C5DUAL100G)	100 G Rates (C5DUAL100G)
T-BERD/MTS-5811P	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■							
T-BERD/MTS-5822P	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■							
T-BERD/MTS-5882	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■							
T-BERD/MTS-5800-100G	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					■	■	■	■	■	■	■

Purple squares (■) indicate that an item can be purchased permanently or as 30-day timed option.

To purchase for 30 days only, add the suffix '-T30' to the product part number.

*For field upgrades (which are available for all configurations), add '-U1' to the product part number.

Package	Ge [1 - 10]	DUAL PORT 10 Ge	25 Ge	40 Ge	100 Ge	OTN	PDH/SDH	DUAL PORT 100GE	TEIM Module	100 GE OPTIC	OTDR Module	Inspection microscope	Fibre Channel	RS-FEC
MTS5800-100GE	❖	❖	❖	❖	✓	❖	❖	❖	❖	✓	❖	✓	❖	❖
MTS5800-100GE-O	❖	❖	❖	❖	✓	✓	❖	❖	❖	✓	❖	✓	❖	❖
MTS5800-GE-100GE	✓	❖	❖	❖	✓	❖	❖	❖	❖	✓	❖	✓	❖	❖
MTS5800-GE-40GE-100GE	✓	❖	❖	❖	✓	❖	❖	❖	❖	✓	❖	✓	❖	❖
MTS5800-GE-100GE-O-S	✓	❖	❖	❖	✓	✓	✓	❖	❖	✓	❖	✓	❖	❖
MTS5800-GE-10GE-100GHW	✓	❖	❖	❖	✓	❖	❖	❖	❖	❖	❖	✓	❖	❖

✓ Standard ❖ Optional ✗ Not possible

T-BERD/MTS-6000A Compact Network Test Platform

T-BERD/MTS-6000A is a compact and lightweight next generation carrier Ethernet test platform designed for all phases of network lifecycle from the installation to the maintenance of fiber networks. Modular in design, the T-BERD/MTS-6000A offers an extensive portfolio of test functionality for multiple network layers.

A single Multi-Services Application module provides an integrated solution for Ethernet, SONET/SDH, and higher-layer tests. Optical Modules allow thorough testing of short-haul, long-haul, FTTx, CWDM, and high speed 40Gbps networks.



VIAVI StrataSync enabled

Applications

- OTDR and power level testing
- Converged Ethernet/IP networks at 10 Mbps to 10 G interfaces testing and troubleshooting
- TDM/PDH to SONET/SDH at OC-3/STM-1 to OC-192/STM-64 testing
- OTN networks installation and maintenance up to 11.1 G interfaces with ODU-0/ODUFlex support for Ethernet/IP client interfaces
- Dual FC (1, 2, 4, 8, 10 G) testing for service activation and maintenance of SANs and low-latency circuits
- PMD, Spectral Attenuation Profile and Chromatic Dispersion (CD) testing
- Optical Spectrum Testing

Key Features

- Lightweight platform: only 2.4 kg/5.3 lbs
- Large 8-inch transreflective TFT color display improves viewing under any conditions
- Intuitive graphical user interface with touchscreen
- Long battery life using smart Lithium ion cell
- Connection checker with VFL, power meter, ORL and video inspection scope options
- Built-in optical talkset option for communicating along the fiber
- Remotely controlled (Ethernet/IP) / WiFi / 3G /4G
- Fast data transfer via USB, Ethernet port and 1GB extended memory
- GPS option to certify coordinates

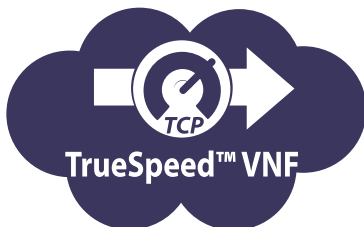
Virtualized Network Test

Demand for bandwidth is increasing for both physical networks and emerging virtualized networks. VIAVI offers two proven solutions for testing virtual network functions and ensuring that your customers are experiencing reliable, high quality services.

TrueSpeed VNF

TrueSpeed VNF delivers throughput testing as a virtual network function based on RFC 6349 to quickly evaluate the customer experience of their network and provide actionable information to resolve any problems.

Operating as a virtual network function (VNF) in conjunction with VMware hypervisors, Red Hat Linux, and x86 compute resources, TrueSpeed VNF deploys quickly and tests reliably in all parts of an operator or enterprise network.



Applications

- Business services and residential customer-care testing
- Mobility backhaul qualification and troubleshooting
- Residential ISP installation testing
- Metro and core network mesh testing

Key Features

- Standards-based, repeatable TCP throughput test
- TCP throughput test results in Mbps as well as TCP efficiency and buffer delay metrics
- Compatible with commercial, high-volume x86-based servers

Cable

PathTrak Return Path Monitoring System

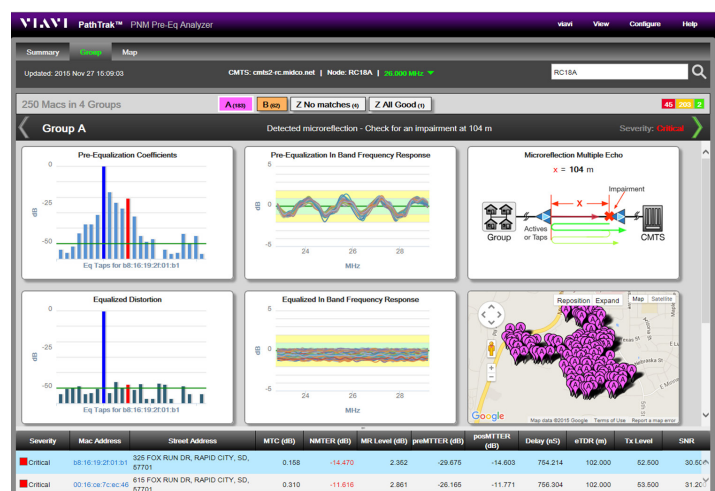
PathTrak provides superior spectrum and QAM analysis capabilities enabling the most efficient and effective monitoring and troubleshooting capabilities. Now fully supported by XPERTrak software, PathTrak is an integral part of VIAVI's overall HFC maintenance, monitoring, and troubleshooting portfolio.

Applications

- Ingress remediation including fast impulse noise
- Network prep and readiness for deploying DOCSIS 3.1 – Network prep and readiness for QAM bandwidth/modulation increases
- Real-time alarming of service-impacting issues
- Seamless transition from traditional to Remote PHY architectures
- Valuable data feed and find and fix component for VIAVI XPERTrak

Key Features

- Simply the best live spectrum and QAM analyzers (mobile-friendly)
- Node ranking to fix nodes that matter the most
- Spectral and packet-based analysis capabilities, complete picture of upstream health
- Scalable solution minimizes hub space/power/cooling required
- Support field techs with VIAVI FieldView™ and Field View QAM™ for one-person upstream troubleshooting
- Performance history collection and reporting for trending and intermittent issue troubleshooting



OneExpert CATV helps field technicians fix problems right—the first time. A multi-touch, user-friendly interface and OneCheck™ automated tests ease complex tasks with a simple dashboard with clear pass/fail results. And, its future-proof modularity ensure years of use supporting cable television and home networks.



VIAVI StrataSync enabled

Advanced Capabilities

- DOCSIS 3.1 physical and service performance
- 32x8 DOCSIS for Gigabit speeds
- WiFi 2.4GHz and 5GHz, Bluetooth
- Dual GigE Ethernet with optional TrueSpeed™ for testing at ONT or CM
- Optional Fiber Scope and Power Meter
- Forward sweep to 1.2 GHz, reverse sweep to 200 MHz
- Sweep backward compatible with SDA/DSAM gear

Applications

- Troubleshoot service issues between the TAP, Ground Block and CPE
- Identify and fix intermittent issues related to QAM carriers and the home network
- Verify WiFi signal strength and availability in 2.4GHz and 5GHz networks
- Business Service turn-up and troubleshooting
- Gigabit service testing with TrueSpeed™
- PON and RFOG installation and troubleshooting including inspection, power levels, and RF performance

Key Features

- DuoPort™ design with PosiScan™ — a VIAVI Exclusive — ensures proper connection and testing of Ingress Scan and Downstream tests, helping techs do the job right the first time
- AutoChannel™ – Automatically identifies channel plan
- Cloud Enabled via StrataSync™ to track test results and compliance
- OneCheck dashboard clearly displays summarized results of the entire lineup, including MER/BER in about 60 seconds, with simple identification of faults needing attention
- Expertise Built In – Session Expert -- offers background analysis that identifies issues consistently between technicians, suggests actions that help technicians fix problems, and provides VIAVI expertise and algorithms built into a simple test
- Built in Usage Guide – learn to use the meter on the job

VSE-1100

VSE-1100 helps cable service providers maintain optimal network performance with video and spectrum analysis for fast and easy preventive maintenance and troubleshooting. Innovative upstream test modes speed troubleshooting to shorten mean time to repair. A tablet user interface and measurement engine simplify operation and remote test capabilities.



VIAMI StrataSync enabled

Applications

- Analyze and properly align DOCSIS 3.1 OFDM carrier levels
- Troubleshoot intermittent issues with TimeTrak
- Record complete automated performance analysis, and document results with simplified process
- Rapid and consistent rollout and troubleshooting verification of CCAP and RemotePHY applications
- Fast troubleshooting as technicians work across network segments, solving issues quickly and completely—the first time
- Collaborative MPEG and RF analysis—reducing MTTR by letting techs track issues through the network
- Objective and quick segmentation of service-impacting upstream issues that affect end-customer experience
- Clearly-indicated impulse noise and ingress to significantly speed resolving intermittent issues

Key Features

- Extended frequency range – analyze up to 1.8 GHz
- DOCSIS 3.1 OFDM carrier identification and measurement
- Performance Scan –automated complete analysis with easy reporting
- TimeTrak – Level, DQI and MER tracked for up to 25 hours
- Real-time VIAMI Hyper-Spectrum™ overlapping FFT analysis instantly detects any transient interference and noise
- Portable MACTrak™ demodulates upstream signals to detect code word errors and linear distortions
- AutoChannel™ delivers content-intelligent tuning through an innovative method of automatic channel program detection and channel plan building.
- MPEG error visibility with live transport-stream display and post-capture analysis helps troubleshoot difficult video issues
- One-screen display shows all spectrum, level, and MER measurements of all channels (the world's first)
- In-band and in-service fault measurements that standard spectrum analysis tools frequently miss, reducing repeat rates

Leakage Equipment

From innovative pressure testing for the home to GPS-based drive test systems for the outside plant, VIAVI provides superior solutions to all your analog leakage and digital leakage management needs. The industry-leading Trilithic leakage portfolio is now even better with VIAVI OneExpert meter and XPERTrak integrations.

Seeker D Lite

The Seeker D Lite is a dual-mode and dual-frequency in-home leakage detector that accurately monitors leakage in all digital systems or in mixed digital and analog systems. The Seeker D Lite works with both the CT-4 Channel Tagger in the headend or the Seeker D Lite Source Transmitter in the field.



Key Features

- Dual-mode and dual-frequency in-home leakage detector that accurately monitors leakage in an all-digital system or mixed digital and analog systems
- Provides a cost-effective solution for in-home leakage detection by using existing CT-4 Channel Taggers installed in the headend or by using the Seeker D Lite Source Transmitter
- When used with the Seeker D Lite Source Transmitter at the Ground Block, the Seeker D Lite provides an industry-leading sensitivity of 0.1 $\mu\text{V}/\text{m}$ for finding the smallest of leaks and accentuating ingress points in the customer premises
- Detects leaks at a low enough level to validate that transmissions from cellular devices in the home do not enter the cable plant and cause potentially harmful interference

Seeker D and MCA III

Seeker D with MCA III is a GPS-based leakage management and CATV leak detection system with a dual-band leakage detector capable of monitoring leakage within the aeronautical band or the near-LTE band in a complete digital system. This means no investment for special drive-out vehicles is required, and every truck in the operator's fleet can identify leakage outbreaks with GPS precision.



Key Features

- High-performance, GPS-based leakage management system that accurately monitors leakage in all digital systems or mixed digital and analog systems with unsurpassed sensitivity from 2 $\mu\text{V}/\text{m}$ to 2000 $\mu\text{V}/\text{m}$
- Upload Leakage data and receive firmware upgrades via LAW software through WiFi, Ethernet, or Cellular
- Optional Garmin interface provides turn-by-turn directions to leak locations
- Cost-effective solution utilizing the majority of existing seeker GPS installation and equipment

Seeker HL

The Seeker HL In-Home Leakage Evaluation System is a low-cost digital leakage solution that includes a dual-frequency tagged signal source, with a selectable output level and a discriminating leakage receiver that is designed to be extremely sensitive to leakage in both the Aeronautical and LTE Frequency Bands.



Key Features

- Dual-band leakage receiver for both aeronautical and LTE frequencies
- Sensitivity up to 0.1 $\mu\text{V}/\text{m}$ at 138 MHz and 0.4 $\mu\text{V}/\text{m}$ at 757.5 MHz
- Tagged signal source combined with a discriminating leakage receiver
- Audible tone increases proportionally in pitch as technician moves closer to the source of leakage

Seeker and MCA III

The VIAVI Seeker with Seeker MCA III leakage management system offers high performance GPS leakage detection and CATV leak detection for documentation and troubleshooting. No investment for special driveout vehicles is required, and every truck in the operator's fleet can identify leakage outbreaks with GPS precision.



Key Features

- High-performance, GPS-based leakage management system; ideal for drive-outs, leak documentation, and troubleshooting
- Very cost-effective deployment throughout entire fleet
- Maximum efficiency achievable through totally automatic operation
- Automatic uploads via WiFi, cellular, ethernet, or manually through USB
- Seeker easily removed from mobile mount for find and fix
- Real-time leakage detection using EDN

Seeker Lite²

Frequency agile leakage detector (120 - 147.25 MHz) with ten user selectable presets features Searcher Plus GT technology that is compatible with CT-2 or CT-3 channel tagging techniques, a measurement range from 10 - 2000 uV/m, as well as numeric readout, and tone proportional to signal strength.



Key Features

- Numerical measurement display
- Sensitive, stable measurements
- Directional for leak location
- Stable, repeatable readings and built in directional antenna simplify leak location
- "Cruise Mode" offers continuous surveillance for long periods at reduced battery current
- Tough, simple to use and very cost-effective
- Ideal leakage measurement instrument for insuring leakage -and ingress- free installations, every time

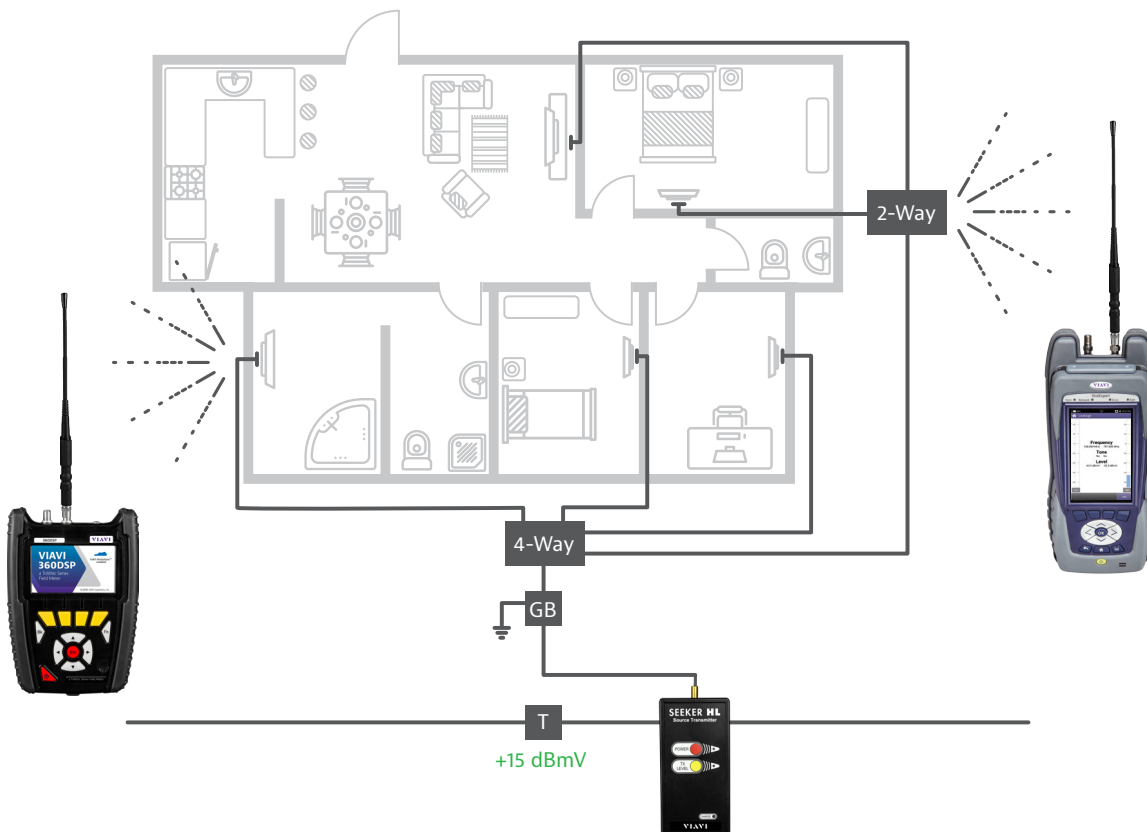
Home Leakage Test Kit

This simple, cost-effective solution enables technicians to tighten up the home coaxial network thereby helping to eliminate intermittent issues related to leakage and ingress. The Home Leakage Test Kit includes a hand-held Seeker HL Transmitter that generates high amplitude test signals. The receiver is the technician's option-equipped DSP or ONX meter with an antenna on the input. This means no additional high sensitivity meter is required to do the home pressurization test



Key Features

- Dual-band leakage receiver for both aeronautical and LTE frequencies; Testing at two frequencies maximizes potential to detect leak/ingress location
- Audible tone increases proportionally in pitch as technician moves closer to leak source, simplifying the process of locating the exact source of leakage/ingress in the home network
- Works with option equipped installation and service meter (DSP or ONX) – an affordable and effective solution
- Finds points of potential ingress, even when ambient ingress source is currently not present



Field Analyzers

DSP Series Meters

As cable networks migrate to newer technologies, and anticipating an eventual move to DOCSIS 3.1 and 1.2 GHz downstream range for all meters, the complete VIAVI meter line provides these installation and service measurement capabilities for cable service providers and contractors. These robust and compact DOCSIS 3.1 meters are known for their long battery life.



Applications

- Return spectrum analysis (4 to 110 MHz)
- Level, C/N; QAM and OFDM measurement
- Complete channel plan scan with tilt measurement
- Advanced, yet simple testing and troubleshooting with channel plan auto discovery

Key Features

- 1.25 GHz Frequency range
- Meters with DOCSIS® 3.1 RF measurements and with cable modem service tests
- Auto-discovery of channel plans

Feature Matrix

Model	180 DSP Lite	180 DSP	360 DSP	1G DSP
Analog NTSC/PAL Channel Measurements				
Video/Audio Level	■	■	■	■
Delta V/A	■	■	■	■
Carrier-to-Noise	■	■	■	■
Hum	Option	■	■	■
Digital QAM Channel Measurements				
Level	■	■	■	■
Pre/Post BER	■	■	■	■
MER	■	■	■	■
Constellation	■	■	■	■
Equalizer	■	■	■	■
BER vs Time	■	■	■	■
Errored Seconds	■	■	■	■
Severely Errored Seconds	■	■	■	■
Hum	Option	■	■	■
Digital OFDM Channel Measurements				
Average Level	■	■	■	■
Max P/V	■	■	■	■
In-Channel Tilt	■	■	■	■
PLC Constellation	■	■	■	■
PLC Level	■	■	■	■
PLC Pre/Post BER	■	■	■	■
PLC MER	■	■	■	■
Decoder Stress vs Time	■	■	■	■
Default Profile Summary	■	■	■	■
Cable Modem Statistics				
Priority			■	■
Channel Frequency			■	■
Tx/Rx Level			■	■
Signal-to-Noise Ratio			■	■
Pre/Post BER/CWER			■	■
MER			■	■
Cable Modem OFDM Measurements				
Summary for All Profiles			■	■
Advanced Profile Statistics			■	■
Multiple Profile Selection			■	■
Continuous Pilot Distributed MER			■	■
Subcarrier Measurement Details			■	■

Feature Matrix continued

Model	180 DSP Lite	180 DSP	360 DSP	1G DSP
Net Tests				
Ping	■	■	■	■
Trace Route	■	■	■	■
Throughput	■	■	■	■
VoIP	■	■	■	■
Modem Speed Test			■	■
Miscellaneous Features				
Tilt Measurement	■	■	■	■
Channel Plan Auto Discovery	■	■	■	■
Channel Plan Scan	■	■	■	■
Multi-language support	■	■	■	■
Create jobs right on the meter	■	■	■	■
Interactive basic RF installation process	■	■	■	■
Forward Spectrum Analysis (5 to 1250 MHz)	Option	■	■	■
Return Spectrum Analysis (4 to 205 MHz)	■	■	■	■
Built-in web browser, real-time data transmission	■	■	■	■
Multi-user support	■	■	■	■
WiFi Survey			■	■
Frequency Domain Reflectometer		Advanced	Advanced	■
Source Generator (CW, QAM & OFDM)		Advanced	Advanced	■
Upstream Traffic Control Plus			Pro	■
Upstream Linear Distortion Measurement			Pro	■
QAM Error Vector Spectrum Analysis (Ingress under QAM)			Pro	■
Cable Modem Sweep				Sweepless
Forward Passive Sweep				Sweepless
Forward Active Sweep (w/8300A FST)				Sweep
RSA High-Resolution Return Sweep (w/8310 RSA)				Sweep
SSR High-Speed Return Sweep (w/9581 SST)				Sweep
SST Compare with 9581 SST				Sweep

Copper, DSL, WIFI and Broadband Test

WiFi Advisor

VIAMI WiFi Advisor is the first test solution to meet the specific needs of installation professionals at all skill levels. Providing a new, visually rich approach to testing, its intuitive capabilities enable rapid characterization, optimization, and troubleshooting of highly changeable and vulnerable home WiFi networks. It shows a whole-home view of real WiFi performance/throughput margin and can deliver easy-to-understand performance information directly to the end customer.



Application

- WiFi troubleshooting and optimization
- Whole-home WiFi performance mapping and throughput analysis
- Wireless IPTV service installation
- End-user education

Key Features

- Site performance report educates customers
- TrueMargin™ optimizes WiFi site throughput
- Intuitive and easy user interface recommends best channel and optimization steps
- Highly-configurable radio supports 2.4 G 802.11b/g/n and 5 G 802.11a/n/ac up to 3x3 with MIMO
- Associates job- or work-ticket information with site assessment results for export to the cloud for storage and analysis

OneExpert DSL Modular Field Test Platform for G.fast, xDSL, Copper, FTTH Verification, and WiFi

Consistently achieve high-performance results when deploying fast broadband service to the home. OneExpert DSL helps field technicians fix problems—the first time, for xDSL from G.fast to ADSL. The multi-touch, user-friendly interface and OneCheck automated tests ease complex tasks with clear pass/fail results.



VIAVI StrataSync enabled

Application

- G.fast, VDSL (vectoring and bonding), and ADSL networks
- Copper, TDR, spectral tests
- Fiber, wifi, coax, and wiring test and installation
- Web, video, VoIP, TrueSpeed verification and troubleshooting

Key Features

- Test G.fast and ADSL2+/VDSL2 including bonded and vectored pairs, copper, POTS, and coax/HPNA
- Multi-touch, friendly user interface leverages user experience from smartphones and tablets
- StrataSync cloud-enabled architecture provides easy asset management and test data management

SmartClass TPS

All-in-one tool that fully tests the access network (copper, fiber, POTS, coax, HPNA, and ADSL2+/VDSL2 including vectored or bonded pairs) as well as broadband services (data, VoIP, and IP video) so technicians can rapidly correlate and resolve triple-play service problems to potential physical-layer causes.



Application

- DSL networks and triple-play services
- WiFi and in-home coax networks
- Broadcast and VoD streams including VMOS
- VoIP packet streams
- IP data connectivity

Key Features

- Supports WiFi
- Tests ADSL2+/VDSL2 including bonded and vectored pairs, broadband services (data, VoIP, and IP video), copper, POTS,

fiber, WiFi, and coax/HPNA

- Web browser
- OneCheck automates all ADSL2+/VDSL2, data, VoIP, and IP video tests and reports all key quality metrics
- CableCheck verifies copper-pair health with balance testing and ground checks
- SmartClass TPS mobile device application for iPhone/iPad (iOS App) provides remote control, job management, and technical support content including tutorials

Cell Site Test/BBU

VIAMI mobile base station test solutions are the industry's most comprehensive and cost effective for installation, commissioning, and maintenance. VIAMI CellAdvisor reduces the amount of time and equipment required to install and maintain multiple types of cell sites. CellAdvisor is a rugged and portable solution which allows cloud-enabled test process management and automation via Stratasync.

CellAdvisor Base Station Analyzers

VIAMI CellAdvisor Base Station Analyzer is the optimal test tool for installation and maintenance of cell sites, supporting RFoCPRI and narrowband IoT testing, spectrum and interference analysis, and much more.

CellAdvisor Base Station Analyzers support RFoCPRI and NB-IoT testing, and offer dual-port capability, cable and antenna analysis/spectrum analysis/interference analysis/signal analysis/demodulation and RF /optical power meters and optional fiber inspection in a rugged, portable, cloud-enabled instrument.



Application

- Capable of demodulation of all wireless technologies up to LTE
- Easy to use Auto-Measure function presenting the RF and Modulation analysis in a summary screen
- Fiber Inspection
- Interference Analysis and PIM detection over CPRI
- Fronthaul and RRH verification over CPRI

Key Features

- Spectrum Analyzer up to 8GHz
- Signal Analyzer for all wireless technologies from 2G to 4G
- LTE-A Carrier Aggregation
- MIMO 4X4
- PIM detection
- MBMS analysis
- Layer-2 term & monitoring for CPRI fronthaul
- Interference Analysis over CPRI fronthaul
- PIM Detection over CPRI fronthaul
- Dual Spectrogram View
- Interference Analyzer
- Channel Scanner
- Cable and Antenna Analyzer
- RF Power Meter (internal and external)
- Over-the-Air Measurement (OTA)
- Bluetooth remote control within 100M
- Cloud enabled via JDSU StrataSync
- Unique Optical Power Meter (with appropriate USB accessory)
- Fiber Inspection via P5000i microscope
- NB-IoT analysis (In-Band, Guard-band, Standalone)
- EMF measurements

Specifications

	JD745B	JD785B
Spectrum Analyzer	100 kHz to 4 GHz	9 kHz to 8 GHz
Cable & Antenna Analyzer	5 MHz to 4 GHz	5 MHz to 6 GHz
Power Meter	10 MHz to 4 GHz	10 MHz to 8 GHz

CellAdvisor Cable and Antenna Analyzers

CellAdvisor Cable and Antenna Analyzer is a rugged, easy-to-use, all-in-one tool providing integrated solutions for line sweep measurement, RF / optical power measurements, and fiber inspection, all in a lightweight, cloud-enabled instrument ideal for cell site installation.

Application

- Verify cell-site cable and antenna systems
- Test distributed radios with RF and fiber feed-lines
- Validate DAS deployments
- Test NFC antennas (RFID and security equipment)

Key Features

- Inspect fiber with PASS/FAIL indications using P5000i fiber microscope
- Measure RF and optical power using power sensors
- Three zoom zones for detailed analysis on multi-frequency bands
- Up to 40 dBm (10W) RF port protection
- Generate PDF/HTML reports
- Automatically saves events that exceed pre-defined limits
- Application software for post-analysis (JDViewer) and remote control (JDRemote)
- Web-based remote control via Bluetooth and Wi-Fi



Model	Frequency	RF tests 1-port Return loss, VSWR, DTF, cable loss, RF power	2-port Gain/ insertion loss	Fiber tests Fiber inspection, optical power	Self-guided tests TestWizard	Cloud service StrataSync
JD723C	100 MHz TO 2.7 GHz	■		■	■	■
JD724C	5 MHz to 4 GHz	■		■	■	■
JD725C	5 MHz to 4 GHz	■	■	■	■	■
JD726C	5 MHz to 6 GHz	■	■	■	■	■

CellAdvisor RF Analyzers

CellAdvisor RF Analyzer combines the functionality of spectrum analysis, cable and antenna analysis, and power measurements, covering all of your needs for test, acceptance, and troubleshooting of the physical layer of cellular networks.

CellAdvisor RF Analyzers support RFoCPRI, and offer dual-port capability, cable and antenna/spectrum/interference/signal/demodulation and RF/optical power meters, as well as optional fiber inspection, in a rugged, portable cloud-enabled instrument.



Application

- Interference Analyzer
- Channel Scanner
- CW Signal Generator
- Cable & Antenna Analyzer: 5 MHz to 4 GHz
- High Accurate Power Meter: 10 MHz to 4 GHz
- Fiber Inspection
- Interference Analysis and PIM detection over CPRI
- Fronthaul and RRH verification over CPRI

Key Features

- Spectrum Analyzer up to 8GHz
- Layer-2 term & monitoring for CPRI fronthaul
- Interference Analysis over CPRI fronthaul
- PIM Detection over CPRI fronthaul

- Channel Power and Adjacent Channel Power
- Spectrum Emission Mask and Occupied Bandwidth
- Two port transmission measurements
- Bluetooth remote control within 100M
- Cloud enabled via VIAVI StrataSync
- AM/FM Audio Demodulation
- PIM detect
- Dual spectrogram view
- RF power meter (internal and external)
- Unique optical power meter (with appropriate USB accessory)
- Fiber Inspection via P5000i microscope
- NB-IoT analysis (In-Band, Guard-band, Standalone)
- EMF measurements

Specifications

	JD746B	JD786B
Spectrum Analyzer	100 kHz to 4 GHz	9 kHz to 8 GHz
Cable & Antenna Analyzer	5 MHz to 4 GHz	5 MHz to 6 GHz
Power Meter	10 MHz to 4 GHz	10 MHz to 8 GHz

CellAdvisor Signal Analyzers

CellAdvisor Signal Analyzers combines the functionality of spectrum analysis, DAS, and power measurements, supporting RFoCPRI and NB-IoT testing, spectrum / interference / signal demodulation and RF / optical power meters and optional fiber inspection in a rugged, portable cloud-enabled instrument.



Application

- Capable of demodulation of all wireless technologies up to LTE
- Easy to use Auto-Measure function presenting RF and Modulation analysis in a summary screen
- Fiber Inspection
- Interference Analysis and PIM detection over CPRI
- Fronthaul and RRH verification over CPRI

Key Features

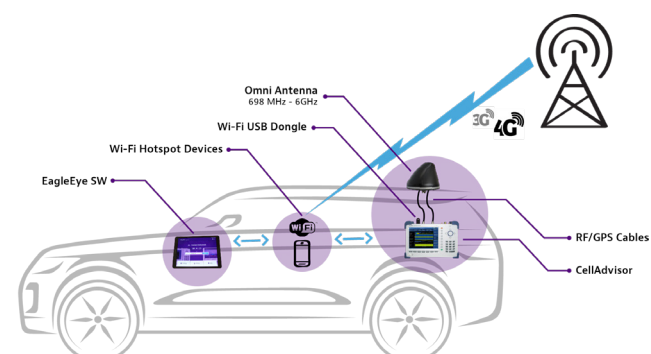
- Spectrum Analyzer up to 8 GHz
- Signal Analyzer for all wireless technologies from 2 G to 4 G
- LTE-A Carrier Aggregation
- MIMO 4X4
- PIM Detect
- Multimedia Broadcast Multicast Service Analysis
- Layer-2 term & monitoring for CPRI fronthaul
- Interference Analysis over CPRI fronthaul
- PIM Detection over CPRI fronthaul
- Dual Spectrogram View
- Interference Analyzer
- Channel Scanner
- RF Power Meter (internal and external)
- Over-the-Air Measurement (OTA)
- Bluetooth remote control within 100M
- Cloud enabled via VIAVI StrataSync
- Unique Optical Power Meter (with appropriate USB accessory)
- Fiber Inspection via P5000i microscope
- NB-IoT analysis (In-Band, Guard-band, Standalone)
- EMF measurements

Specifications

	JD748B	JD788B
Spectrum Analyzer	100 kHz to 4 GHz	9 kHz to 8 GHz
Power Meter	10 MHz to 4 GHz	10 MHz to 8 GHz

InterferenceAdvisor

InterferenceAdvisor™ is a fully-automated interference hunting solution. Easy to set up and simple to use, it allows one RF engineer to identify and locate an interference source in just hours, simply by following voice prompts on a familiar map-style application on an Android tablet.



Key Benefits

- Creates heat-map of interference during a drive test
- Performs different modes of analysis (peak, RSSI, channel) based on the characteristics of the interference signal
- Automatically identifies the location of interference based on heat-map power levels
- Indicates area of interference and provides navigation instructions to the interference location
- Easy setup and operation with WiFi or USB connectivity between the InterferenceAdvisor tablet and CellAdvisor instrument

Tier 1 and Tier 2 Test

VIAVI fiber certification solutions help technicians optimize their workflow while performing all the required tests for certification in half the time as legacy tools. Tier 1 certification consists of fiber-optic insertion loss (IL), length, and polarity measurements. Tier 2 certification consists of performing an OTDR trace of each fiber link.

Certifier10G

The VIAVI Certifier10G equips technicians with all the capabilities they need to certify copper networks (up to Category 6A) quickly, completely, and correctly for all current and future cabling standards for the new enterprise.

Application

- Complete TIA 568/ISO 11801 copper certification
- TIA-942-A data center certification

Key Features

- Permanent link and channel adapters for certifying to TIA category 5e/6/6A
- Integrated, standards-based certification labeling and reporting



Certifier40G

The VIAVI Certifier40G equips technicians with all the capabilities they need to certify both copper and fiber networks quickly, completely, and correctly for all current and future cabling standards for the new enterprise.



Application

- Complete TIA 568/ISO 11801 copper and fiber certification
- TIA-942-A data center certification
- Certify plug-and-play (trunk/cassette) fiber connectors with MPO connectors
- Objective pass/fail testing for IEC 61300-3-35 fiber end-face requirements

Key Features

- Permanent link and channel adapters for certifying to TIA category 5e/6/6A and ISO class D/E/EA/F/FA

- Multimode (850/1300 nm) and single-mode (1310/1550 nm) adapters for Tier 1 fiber certification (loss/length/polarity)
- Multimode (850 nm) MPO adapters for certifying and troubleshooting MPO links and trunks
- Industry-leading VIAVI P5000i digital fiber end-face inspection probe support
- Integrated, standards-based certification labeling and reporting

SmartClass Fiber OLTS-85/85P Optical Loss Test Sets

VIAVI SmartClass Fiber OLTS-85/85P lets installers and technicians work fiber smart by integrating industry-leading fiber inspection with Tier 1 testing. This efficient, easy-to-use solution promotes best practices while cutting testing and certification time in half. Have confidence in your network quality and optimize your workflow with a single solution

Applications

- Comprehensive tier 1 fiber testing to TIA/ISO/IEC standards
- Inspecting fiber end faces—both patch cord and bulkhead
- Generate certification reports

Key Features

- Dedicated multimode, singlemode, and quad versions
- 3.5 inch color touch screen
- Measures length & optical loss (two fibers, two wavelengths), with polarity check
- Encircled flux compliant
- Automated pass/fail fiber inspection analysis with optional P5000i microscope



- Available with integrated patchcord microscope
- Direct reports via FiberChekPRO™ reporting software

SmartClass Fiber OLP-82,-82P Optical Power Meters

SmartClass™ Fiber is a product family of handheld test tools that integrate fiber inspection, optical testing and PASS/FAIL certification together in a single device. With SmartClass Fiber OLP-82P/-82P, technicians obtain ultimate flexibility and performance in a powerful, yet easy to use solution that can turn any technician into an instant fiber expert.

Applications

- Measurement of optical power (absolute and relative)
- Measurement of optical insertion loss
- Inspecting fiber end faces – both patch cord and bulkhead

Key Features

- Modern user interface with 3.5 inch color touch screen.
- Automated PASS/FAIL analysis for fiber inspection and optical tests.
- Integrated patchcord microscope version.
- On board storage of fiber inspection and test results.
- Integrated reporting capability and off line certification software to create customized reports.



T-BERD/MTS-2000 Handheld Modular Test Set

The T-BERD/MTS-2000 is a handheld modular test set for the installation, turn-up, and maintenance of optical fibers across enterprise, metro, and FTTx/access point-to-point or point-to-multipoint networks (PONs).

The T-BERD/MTS-2000 provides the largest range of test capabilities offered in one handheld unit. The modular design gives service providers the maximum flexibility to scale their investment and evolve with the growth of their network. The instrument supports the whole range of essential fiber analysis tools including connection inspection, connection check, light source and power meter. As well as standard OTDR modules, PON optimized OTDR modules, CWDM and DWDM OTDR modules, and CWDM optical spectrum analyzer module.



VIAMI StrataSync enabled

Application

- Characterize point-to-point access and metro fiber networks
- Qualify and troubleshoot FTTH/PON networks
- Qualify and troubleshoot singlemode or multimode FTTA/DAS/C-RAN fronthaul
- Qualify and troubleshoot multimode fiber links in LAN/WAN, enterprises, and data centers
- Characterize and troubleshoot fiber links with exact CWDM & DWDM wavelengths
- FiberComplete fully automated bi-directional IL/ORL & OTDR certification

Key Features

- 5 inch touch-screen display
- Single-/dual-/tri-wavelength versions with 1310, 1550, and in-service 1625 or 1650 nm wavelengths
- Dual multimode (850/1300 nm) or quad wavelengths multimode/singlemode (850/1300/1310/1550 nm) versions
- PON optimized to test through a 1x256 splitter
- Automated pass/fail fiber inspection analysis with optional P5000i microscope
- OTDR modules are compatible with T-BERD/MTS-4000 V2 multiple services test platforms
- Smart Link Mapper (SLM) eliminates OTDR interpretation errors without impacting test times
- Built-in optical power meter and VFL options

SmartClass Fiber OLS-85 Handheld Light Source

The SmartClass Fiber OLS-85 handheld light source is a professional, versatile, and compact instrument used for fiber-optic network qualification and certification. Its specific wavelength combinations make it optimal for link loss testing and long-haul, metro, and access telecommunication network characterization, as well as data center and local area network testing.



Applications

- Measurement of fiber insertion loss together with a VIAVI optical power meter OLP-3x or OLP-8x
- Inspection of optical connectors (requires a P5000i microscope)

Key Features

- 3.5 inch color touch screen with integrated stylus
- Battery-operated field-portable optical light sources with 1310/1550 nm wavelengths
- Interchangeable SC and FC optical adapters
- Auto-lambda and multi-lambda test functions in combination with VIAVI optical power meters

SmartClass Fiber MPOLx - MPO Optical Loss Test Sets

The VIAVI SmartClass Fiber MPOLx is the industry's first dedicated optical loss test set that can perform all the test requirements for Tier 1 (Basic) certification using MPO fiber connectivity.

The MPOLx gives technicians the ability to achieve a completely new level of productivity for MPO testing and certification. Like all our solutions for Tier 1 (Basic) fiber certification, identical local and remote units are provided to enable full visibility and control by performing tests from both the Light Source and Power Meter. All devices feature a 3.5 inch color touch screen and integrated inspection for both bulkhead and trunk connectors. The MPOLx allows a single technician to inspect MPO end faces and perform tests from either end of the connection, reducing walking back and forth between the two units. The MPOLx ensures fast workflows by delivering comprehensive test results in less than 6 seconds for all 12 fibers of the MPO connector providing color coded pass/fail test results, test limit, fiber length, test wavelengths, loss values, margins, and polarity results for each MPO fiber. The MPOLx provides a source and power meter that integrate essential MPO test capabilities together to ensure a fast and reliable workflow when testing and certifying network links with native MPO connectivity.

Applications

- Comprehensive Tier 1 (Basic) fiber certification for MPO fiber connectivity
- Inspect fiber end faces
- Generate certification reports

Key Features

- Measures length
- Measures optical loss at multiple wavelengths
- Checks polarity for all 12 MPO fibers
- Provides native MPO testing directly on devices
- Delivers test results for all 12 MPO fibers in <6 seconds
- Provides native MPO end-face inspection and automated analysis for both trunk cables and bulkheads
- Dual wavelength optical light sources
- Encircled flux compliant
- 3.5 inch color touch screen interface on all MPOLx devices
- All-day battery life



FiberChek Sidewinder™

The latest addition to the award-winning FiberChek family, Sidewinder is the industry's first "all-in-one" handheld inspection and analysis microscope designed specifically for inspecting multifiber connectors such as MPO. This fully-automated and autonomous microscope improves inspection efficiency by up to 90%, greatly improving throughput and allowing technicians to finish work in a fraction of the time previously required.



Key Features

- Integrated touchscreen
- View fiber end faces
- Auto-center
- Auto-focus
- Auto-pan
- Built-in fiber end-face analysis
- Audible sounds for Pass/Fail results
- User-selectable acceptance profiles
- Stores results on device or export
- WiFi and USB connection to a PC or mobile devices
- Built in acceptance criteria to industry standards (IEC-61300-3-35)

FiberChek™ Probe Microscope

The essential fiber tool for every technician!

The FiberChek probe builds on industry-leading expertise in fiber inspection to deliver an all-in-one handheld microscope for technicians at every skill level. Meeting all fiber inspection needs with built-in image viewing, auto-focus, pass/fail analysis, and result storage and recall, the FiberChek probe completely automates inspection workflows to ensure fast and accurate performance. Used alone or connected to other devices (via WiFi or USB), the FiberChek probe is the essential fiber tool for every technician.



Applications

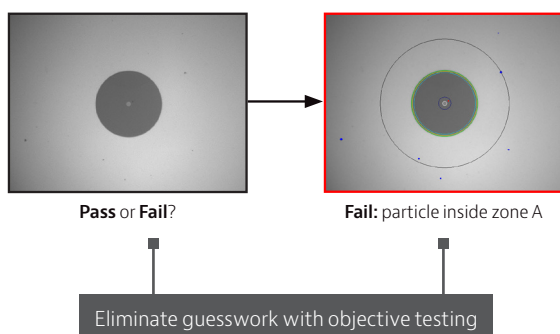
- Inspecting fiber end faces – both patch cord and bulkhead
- Guaranteeing endface condition with certification reports
- Instantly capture, analyze, and grade fiber end face images and obtain a PASS/FAIL result according to pre-configured criteria setting

Key Features

- Integrated touch screen to view fiber end faces
- Auto-Center
- Auto-Focus
- Built-in fiber endface analysis
- User-selectable acceptance profiles
- Stores results on device or export
- WiFi and USB connection to a PC or mobile device

P5000i Fiber Microscope

The P5000i makes it fast and easy to certify that every connection in your network is clear and optimized. This intelligent fiber microscope removes the guesswork from fiber inspection and provides reliable and objective pass/fail analysis of the fibers that connect customers to your network—ensuring the best user experience possible. The P5000i fiber microscope also works with the many VIAVI test solutions users already rely on for essential network testing.



Applications

- Ensure physical layer performance by guaranteeing fiber connectivity meets industry standards
- Instantly capture, analyze, and grade fiber end face images and obtain a PASS/FAIL result according to pre-configured criteria setting
- Standardize fiber inspection, analysis, and grading process throughout fiber network

Key Features

- Repeatable Pass/Fail analysis
- User-selectable acceptance criteria
- FiberChekPRO™ software for analysis and reporting with a PC/laptop
- Automatic image centering and dual-magnification switching
- Connect with other VIAVI instruments or mobile devices
- Connect to mobile Android™ or IOS devices/tablets using FiberChekMobile or WiFi adapter module

Features & Capabilities	FiberChek Probe	FiberChek Sidewinder	P5000i Probe	SmartClass Fiber Solutions
Dual (200/400x) magnification inspection of fiber end faces	■	■	■	■
Automatic pass/fail analysis to industry standards or custom requirements	■	■	■	■
Auto-center	■	■	■	■
Auto-focus	■	■		
Automatic report generation	■	■	■	■
Compatible with mobile devices	■	■	■	■
On-board storage	■	■		■
Fully autonomous operation	■	■		
Integrated display	■	■		■
Wireless operation	■	■		
MPO pass/fail analysis	1 Test = 1 fiber	1 Test = ALL fibers	1 Test = 1 fiber	1 Test = 1 fiber
Dedicated patch cord inspection microscope				Optional

Asset, Data, and Workflow Management

StrataSync™

VIAMI StrataSync forms a cloud hosted solution supporting a range of cloud-enabled instruments providing centralized asset, inventory, configuration, and test data management. Covering a wide range of products including CATV, Access, Metro/Transport, Ethernet, Fiber, Wireless, WiFi, and Enterprise instruments. StrataSync is a key part of your instrument and field workforce ecosystem driving uniform method and procedures, enabling consistency of test while delivering the necessary actionable insights required to achieve operational efficiencies such as improved first time fix success rate and reduced repeat service calls.



VIAMI StrataSync enabled



Application

- Global/regional/departmental asset tracking
- Centralized management of field instrument software, configuration, and test data
- Floating SW license and option management
- Self admin of instruments (TechPortal)
- Manage both direct and contractor workforce with a single platform
- Performance tracking (# of test completed, pass/fail rates, trends)

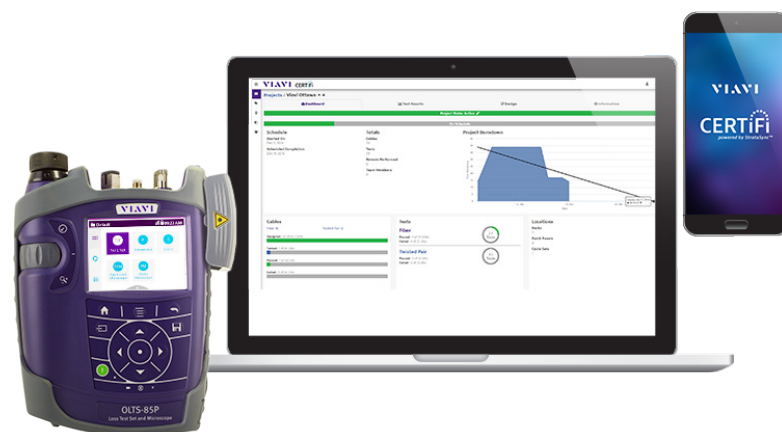
Key Features

- Cloud-enabled architecture provides easy network access, unmatched scalability, and high availability
- Intuitive, browser-based interface tracks and upgrades instruments and displays, prints, stores, and exports test results
- Tech Portal personalized view shows just instruments, options, and actions relevant per-user
- Automated features quickly and easily update instrument firmware and options and configuration files
- Template creation and alignment to instruments ensures technicians always have correct configurations
- Quickly uploads test results to a centralized storage warehouse for analysis to benchmark service and provide insight into network performance

Powered by the VIAVI StrataSync platform, CERTiFi empowers every team member with the information needed to complete tasks accurately and on time.

With CERTiFi, team members establish alignment at every stage of their project – from creating design requirements and assigning tasks, to performing tests and analyzing project metrics in real time. Manage your projects with confidence and equip your team to succeed with CERTiFi.

Supports SmartClass Fiber OLTS-85/-85P and Certifier 40 G



Application

- Design and manage multiple projects with a web-based interface
- Assign projects to consultants, field technicians, sub-contractors, or other team members
- Preload test instruments with tasks and required test criteria such as label lists, acceptance criteria, notes, and more
- Provide site leads with real-time test results and project statuses on mobile device

Key Features

- Manage your projects with confidence at every stage
- Align your team and project specifications in one place
- Communicate job requirements clearly and in real time
- Track project status and analyze results from anywhere
- Assign tasks directly to team members
- Deploy tasks directly to instruments with the CERTiFi mobile application

Lab and Manufacturing Test

VIAVI provides leading-edge test and measurement equipment that supports new equipment design and deployment. Our experienced engineers never stop building with future demands in mind. VIAVI is ready with the solutions you need to be first in earning new revenues from new high-capacity networks.

ONT 100G Test Solutions

The VIAVI ONT Product Family supports testing and verification for new high-speed network elements across a wide range of technologies and scenarios. Our test platforms help manufacturers scale to meet the growth demands of network-driven services, while accounting for ever-evolving technology.



Applications

- Detailed hardware level testing with unframed and protocol based traffic.
- 25G, 50G, 100G and 400G Optical Modules validation: electrical lanes stressing (clock offset variation, TX pre-emphasis and RX equalization manipulation, dynamic skew) per IEEE standards, MDIO/I2C management interface verification (peek/poke, HW pins control, MDIO/I2C Dump)
- Support for OTN, Ethernet, Fibre Channel, CPRI, and SONET/SDH
- Qualify PTP (IEEE 1588) implementations in optical networks and equipment
- Full service disruption and latency measurements for all supported technologies
- Equipment Manufacturers: Support for R&D, SVT (system verification/test), and production environments covering the entire product life cycle
- Service Providers: Conduct product qualification and benchmark testing before deployments and bring to the field for first office applications (FOA)
- Data Centers: Fully verify data center interconnect elements and long-haul transmission elements for quality and performance and fully stress and verify pluggable optics including active optical cables.

Key Features

- Multiple mainframe options including rackmount, desktop, and modules with built-in display for mobile test needs.
- Supports testing of all major transport technologies for equipment manufacturers, service providers, and data centers
- OTN: up to OTU4 with ODU Muxing down to ODU0; ODUflex, ODU multichannel, and FlexO
- Ethernet: Gigabit Ethernet up to 400 GE and FlexE fully supported with full stress/margin analysis
- SDH/SONET: 155 Mbps up to 40G
- Fibre Channel: 1/2/4/8/10/16G FC
- CPRI unframed and framed testing: CPRI line bit rate option 1 (614.40 Mbps) up to option 9 (12.165 Gbps)
- Most accurate latency and service disruptions measurements for OTN, Ethernet, CPRI, Fibre Channel, and SONET/SDH
- Browser-oriented graphical user interface (GUI)
- Full multitasking operation
- Full automation support via CLI or with drivers and libraries for LabWindows CVI, LabView, Python and Tcl/Tk

Includes ONT-600 FlexE, ONT-600 Test Solutions for 25GE up to 100GE / OTU4, ONT-600 Multiport Test Module, ONT-600 N-PORT Test Module and ONT-600 400G CFP8 Module.

MAP PCT

The VIAVI Passive Component/Connector Test Solution (PCT) consists of a powerful family of modules, software, and peripherals for testing insertion loss, return loss, physical length, and polarity of optical connectivity products. Leveraging the modularity and connectivity of the VIAVI MAP-200 platform, the PCT can be configured for R&D, production, or qualification test environments and can address all key fiber types from single-mode through OM1 and OM4.

Applications

- Testing IL/RL/length of optical connectors and cable assemblies, structured-cabling solutions, and optical splitters
- Automated testing of multifiber assemblies, such as MPO
- Solutions for both single-mode and multimode fiber-based devices
- Verifying continuity and polarity of large multifiber assemblies
- Measuring RL of line cards and receptacle-based transponders



FVAi/FVDi Benchtop Microscope

FVAi and FVDi digital benchtop microscopes equip lab & manufacturing environments with the capabilities they need for fiber inspection and certification in a single system that is scalable to optimize throughput at any stage of the production process. From post-polish qualification inspection to end-of-line compliance certification, the FVAi/FVDi microscopes are the ideal benchtop inspection solution for any fiber production facility.





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