

Data Sheet

VIAVI

T-BERD/MTS OCC-4056C DWDM Optical Channel Checker Module with SFP/SFP+ bays

 For T-BERD/MTS-2000 V2, –4000 V2, –5800 and
OneAdvisor 800 Platforms

Connect the VIAVI Solutions™ 4100-Series OCC-4056C DWDM Channel Checker to successfully deploy and maintain passive DWDM signals for Fiber Deep, Remote PHY and C-RAN applications. The OCC-4056C optical performance, combined with the T-BERD/MTS or OneAdvisor 800 platform's suite of testing features, ensures that testing jobs are performed right—the first time.

The OCC-4056C scans the DWDM system and automatically records all channels with the wavelength/frequency and the related power level. Information can be displayed in a graphical spectrum format or in a table of results so that users can easily check the performance of each channel.

T-BERD/MTS-2000


 One-slot handheld modular platform
for testing fiber networks

T-BERD/MTS-4000 V2


 Two-slot handheld modular platform
for testing fiber optic networks

T-BERD/MTS-5800


 Handheld tester for fiber, 5G, Ethernet
up to 100G, OTN, and legacy networks

OneAdvisor 800


 All-in-One Cell-site Installation
and Maintenance Test Solution

 2019 Broadband Technology Review –
4.0 Diamond Award Winner

 2020 Lightwave Innovation Award –
4.0 Winner

Benefits

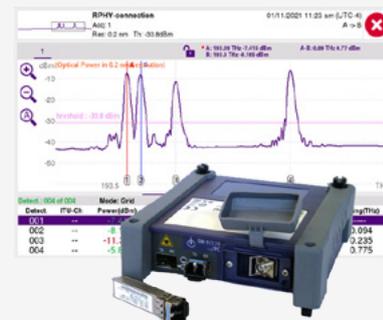
- Qualify any DWDM channel Frequency and Power level
- Troubleshoot any Passive DWDM network (e.g. Fiber Deep, Remote-PHY or C-RAN)
- Verify end-to-end continuity using a DWDM source in the SFP/SFP+ bays

Features

- Supports C-band applications (Ch62 to Ch12)
- Graphical and tabular display mode
- Supports ITU-T G.692 DWDM grid with 50/100 and 200GHz channel spacing
- Power and wavelength drift test application
- Slots for up to two SFP/SFP+ DWDM transceivers or one tunable SFP/SFP+

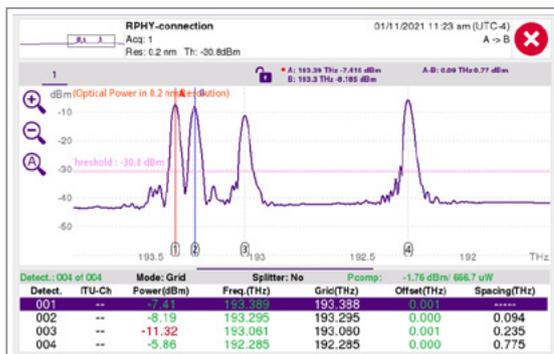
Applications

- Qualify forward/return path links through Mux and Demux
- Validate new wavelength routes for Fiber Deep and Remote-PHY
- Conduct spectral and drift testing on DWDM sources



Ease of Use

One-button auto-testing guarantees that technician needs no special training to carry out a DWDM test, making the VIAVI instrument suitable for both novice and expert technicians. An Auto-Test mode automatically identifies WDM channels, selects the appropriate wavelength range, and provides auto scaling and system qualification according to pre-defined parameters.



Graphical and tabular result screen with P/F indication

Flexible Measurement Capability

In-depth analysis, featuring statistical, continue or single evaluation with automatic storage capabilities, is provided. Different measurement functions such as automatic channel detection, and pass/fail analysis against user-settable limits are available on the OCC-4056C.

High Performance DWDM Testing for installation and Troubleshooting

Covers C-band from 1527.99 nm to 1567.95 nm (Ch62 to Ch12)

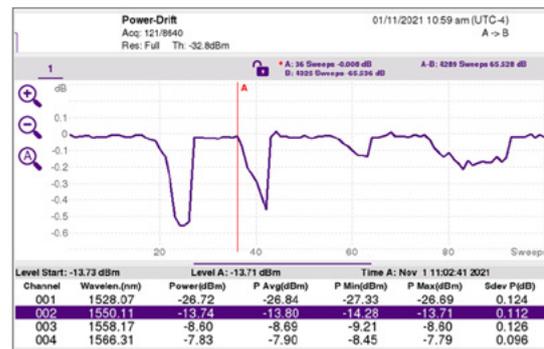
Fast scanning speed (<4 s)

Real spectral measurements with:

- Complete spectral trace
- Tabular results of power and wavelength
- Zoom and marker functions
- High power dynamic for testing at monitor ports

Drift Measurement for Wavelength and Power

For optical performance monitoring it is essential to measure the key parameters over time. The built-in drift test application provides the result of power and wavelength over a customer definable time in a graphical and numerical format.



Power drift over time

SFP/SFP+ Slots for DWDM Transceivers and Tunable SFP/SFP+

The OCC-4056C provides an integrated SFP/SFP+ slot to host up to 2 SFP/SFP+ DWDM transceivers or a tunable SFP/SFP+ (Tunable Optics SW-option required).

The Tunable Optics SW option enables reading type and wavelength of DWDM transceivers and to control tunable SFP/SFP+.

Optical transceiver and tunable SFP/SFP+ can be used to simulate DWDM transmitters for testing insertion loss per wavelength, and end-to-end continuity of a link in DWDM networks with mux/demux and OADMs.



Specifications

Modes	
Operating modes	DWDM, drift
Display modes	Graph (trace + overview) DWDM table and graph + table
Measurement parameters	Channel #, power, wavelength, drift
Spectral Measurement Ranges	
Wavelength range	1527.99 nm to 1567.95 nm 196.20 to 191.20 THz (Ch62 to Ch12)
Wavelength accuracy ¹	±0.060 nm (±7.5 GHz)
Readout resolution	0.01 nm
Resolution bandwidth FWHM ¹	> 0.15 nm
Minimum channel spacing ⁴	0.4 nm/50GHz
Number of channels	Max 99
Power Measurement Ranges	
Dynamic range	-65 to +10 dBm
Noise floor RMS	-75 dBm
Absolute accuracy ²	±0.6 dB
Linearity ³	±0.1 dB
Readout resolution	0.01 dB
Scanning time (full band)	< 4 s
Optical Port	
Input port	SM/APC
Switchable optical adapters	SC/APC mounted FC enclosed (LC and ST on request)
Optical return loss	>35 dB
Total safe power	+22 dBm all channels +10 dBm one channel
SFP/SFP+ Bay	
Can host up to two SFP/SFP+ transceivers or one tunable laser (not included)	

General	
Weight	0.35 kg (0.7 lb)
Dimensions (W x H x D)	128 x 134 x 40 mm (5.04 x 5.28 x 1.57 in)
Temperature	
Operation	-5 to +50°C (23 to 122°F)
Storage	-20 to +60°C (-4 to 140°F)

1. At 23°C ±5°C
2. Typical at -5 dBm at DWDM wavelength grid including PDL
3. -45 dBm to +5 dBm, at 23°C
4. Two channels at equal power level

Ordering Information

Description	Part Number
OCC-4056C DWDM Optical Channel Checker with SFP/SFP+ bays, C-band, APC, SC mounted FC enclosed	2331/12
Tunable SFP SW-option for OCC-4056C	2331/94.01
Adapters	
Switchable ST adapter	2155/00.32
Switchable FC adapter	2155/00.05
Switchable SC adapter	2155/00.06
Switchable LC adapter	2155/00.07

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: viasolutions.com/viavicareplan

Features

*5-year plans only

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	✓	✓	✓	✓*	✓	✓	✓



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