

Brochure

VIAVI

MAP-2100

Rack-mounted Bit Error Rate Tester in the MAP product line

The VIAVI Multiple Application Platform (MAP) is a test and measurement platform optimized for cost-effective manufacturing of optical transmission network elements and components.

The MAP-2100 is a key addition to the MAP product line by adding bit error rate testing capabilities. The MAP-2100 meets the demands that NEMs and component manufacturers have for scale and efficiency by generating multiple traffic types at all line rates, perfect for production environments.

Automation Capable

The MAP-2100 supports SCPI, a common command structure specifically for controlling instruments. It provides users with a means to build an automation layer on top of the test function to easily repeat and speed up test execution.



Key Benefits

- Optimized for testing in a production environment via a rack-mounted design and SCPI-enabled automation
- Unframed per lane BERT testing particularly suitable for transceiver testing
- Broad test coverage
 - Multiple line rates 1.544/2Mbps through 112G line rates
 - Multi- protocol support including Ethernet, OTN, SONET/SDH, PDH, Fibre Channel up to 32G, CPRI, OBSAI, eCPRI

Key Use Case

- Generate multiple traffic types at all line rates in a manufacturing environment

Protocol	Rate
Unframed	4x10G, 4x11G, 4x25G, 4x28G
Ethernet	Optical GE / 10/100/1000Base-T
	10GE LAN / WAN / 10GBase-T
	25GE (RS-FEC and bypass)
OTN	40GE/100GE (RS-FEC)
	OTU1/OTU2/
	OTU1e/OTU2e/
	OTU3/OTU4
SONET/SDH	155M-10G SONET/SDH
PDH	T1/E1/T3/E3/STS-1e/E4
Fibre Channel	1G-32GFC
CPRI	Up to 24.3G CPRI
OBSAI	All rates

Key Features

- Rack mounted, 1U 19" (48.3 cm) wide, kits available for 21" (53.34cm)
- Ensures SFP+/SFP28, QSFP+/QSFP28, and CFP4 modules run error-free with the Optics Self-Test
- Provides speed and efficiency in testing OTN via the OTN Check app.
- Test synchronization and timing using Ethernet One Way Delay and built-in GNSS
- Per port automation support via SCPI with on UI SCPI commands via the What's this function
- Serviceable fans
- VNC enabled with a built-in firewall
- Optics Self-test; troubleshoot performance issues related to high-speed optics. This easy-to-use test integrates items such as a bit error theory algorithm, clock offset verification, and per-lambda power monitoring. Coupled with RS-FEC, it offers pre-FEC and post-FEC testing.
- Cable test; enables production testing of AOC (Active Optical Cable), DAC (Direct Attach Copper), and breakout cables
- RFC 2544 for Ethernet clients in OTN
- Complete ODU multiplexing mappings with nested ODU functionality including ODU0, ODU1, ODU2/2e, ODU3, and ODUFLEX.
 - FEC testing for correctable and uncorrectable errors
 - All 6 TCMs concurrently
 - Service disruption with numerous triggers
 - GCC transparency testing
 - OTN monitor/thru mode

VIAMI Care Support Plans



Increase your productivity for up to 5 years with optional VIAMI 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.

For more Information: go to viavisolutions.com/viamicareplan

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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