



MTS-16



DEVICE

16 Channel Modulator Test Station

OVERVIEW

MTS-16 Modulator Test Station utilizes feedback loop control configuration for automated measurement of Bias Stability, Optical Transmission, Insertion Loss, and DC V_{π} of optical modulators over temperature variation. The test station can measure up to 16 modulators in parallel. MTS-16 consists of a 16-channel integrated low noise light source, a high-precision temperature chamber, compact feedback bias control board and PD board, which makes it a fast and fully automated miscellaneous parameters test station for optical modulators. MTS-16 is capable of measuring the Bias stability, Optical transmission, Optical insertion loss, and DC V_{π} over temperature change for up to 16 modulators in parallel. Figure below shows a modulator testing application case by using MTS-16, the optical transmission and DC V_{π} over temperature change were measured for one intensity modulator.

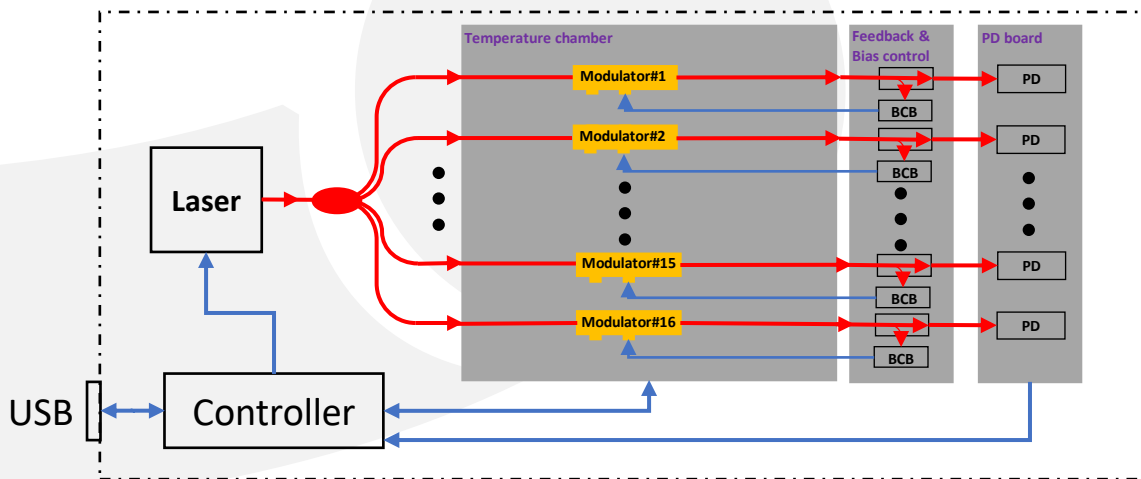
FEATURES

- Miscellaneous Parameters Measurement
- Up to 16 Channel Test Capability
- Phase Modulator, Intensity Modulator Testing
- Customizable Configurations, Upgrades, and Options
- Fully Automated and Integrated
- Q+, Q-, MAX, MIN Working Modes
- User Friendly Interface

USE IN

- Electro-optical Modulator Test
- Microwave Photonics Source Test
- Optical Modulator Test
- RFoF link Test

FUNCTION DIAGRAM





MTS-16

SPECIFICATIONS

GENERAL

Modulator Type	Phase Modulator & Intensity Modulator
Operating Channel	16 (MAX)
Laser Wavelength	780 nm - 850 nm, 1030 nm - 1080 nm, 1530 nm- 1625 nm
Optical Power	13 dBm (Max. to Modulator)
Chamber Temperature	-10 °C - +70 °C
Applicable Bias Voltage V_{π}	2 - 8 V
Bias Mode	Q+, Q-, MAX, MIN
Input/Output Fiber Type	PM Fiber

MECHANICAL

Operating Temperature	+20 °C - +30 °C
Operating Humidity	0% to 90% Relative Humidity
Power Supply	100 - 240 VAC, 50 - 60 Hz
Weight	50 lb
Housing	3U Rackmount
Communication	USB 2.0

TYPICAL TEST REPORT

