

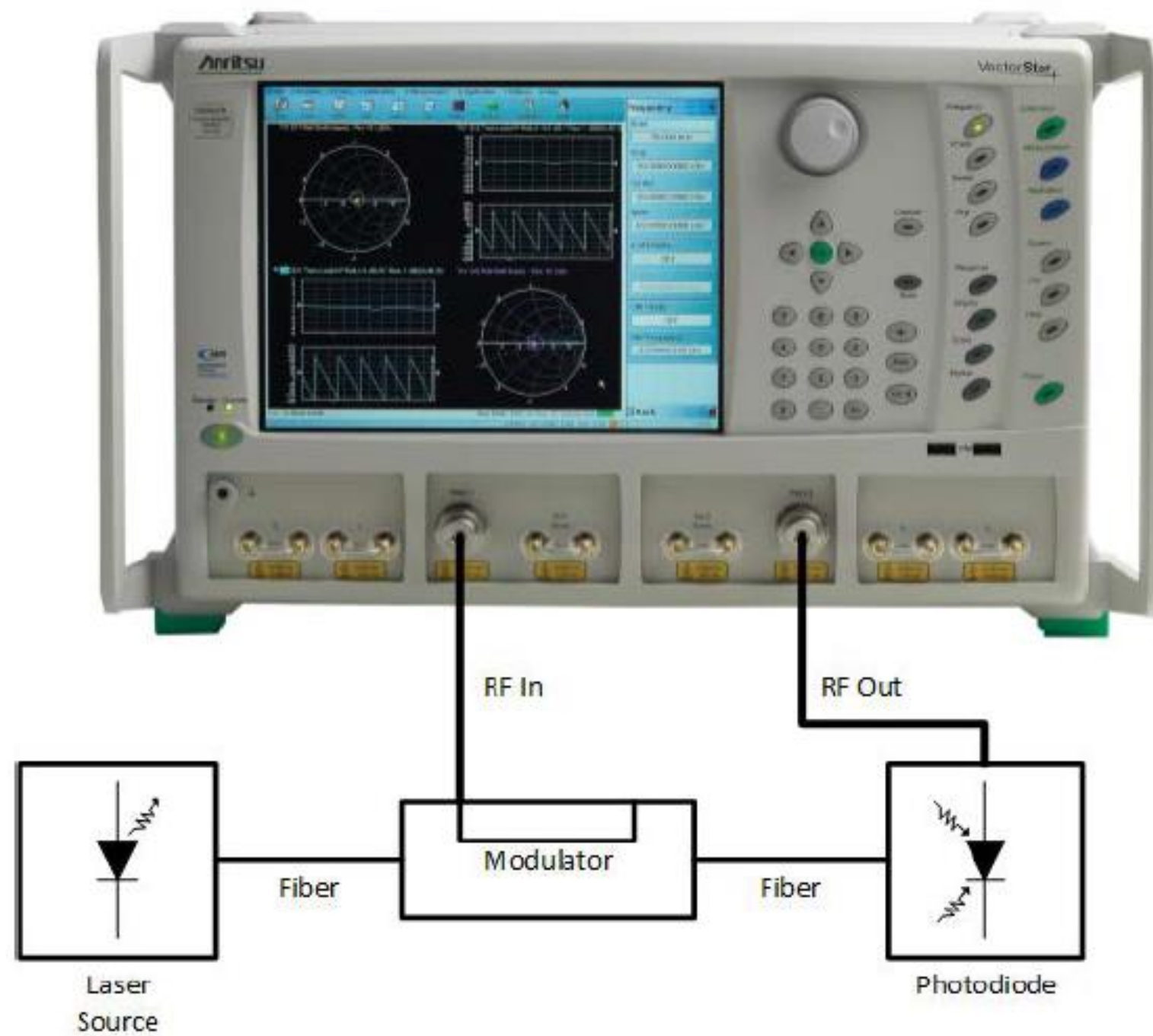
OFC 2020

70 GHz E/O & O/E Measurement

Anritsu
envision : ensure

400G Testing AND Beyond

70 GHz E/O & O/E Measurement



- MN4765B O/E calibration module and MN4775A E/O Converter transform a microwave VNA into a Lightwave Component Analyzer (LCA) or Opto-Electronic VNA

- Provides cost-effective, error-corrected, transfer function, group delay, and return loss measurements of optical modulators (E/O) and photo receivers (O/E)

- Internal VNA application for simplified calibration (now standard in both VectorStar and Shockline)

E/O & O/E Measurements

- Transfer function (bandwidth, flatness, phase linearity, and group delay)
- Electrical return loss

ME7848A Opto-Electronic VNA (850, 1310 or 1550 nm)

MN4775A E/O



- MN4765B-0070 (Option 70): 70 GHz at 1550 nm
- MN4765B-0071 (Option 71): 70 GHz at 1310 nm
- MN4765B-0072 (Option 72): 70 GHz at 1310/1550 nm
- MN4765B-0110 (Option 110): 110 GHz at 1550 nm
- MN4765B-0040 (Option 40): 40 GHz at 850 nm
- MN4765B-0042 (Option 42): 40 GHz at 850/1060 nm
- MN4765B-0043 (Option 43): 40 GHz at 850/1060/1310/1550 nm

MN4765B O/E



Fiber



MS4644B or MS4647B VectorStar VNA



Port 1

Port 2

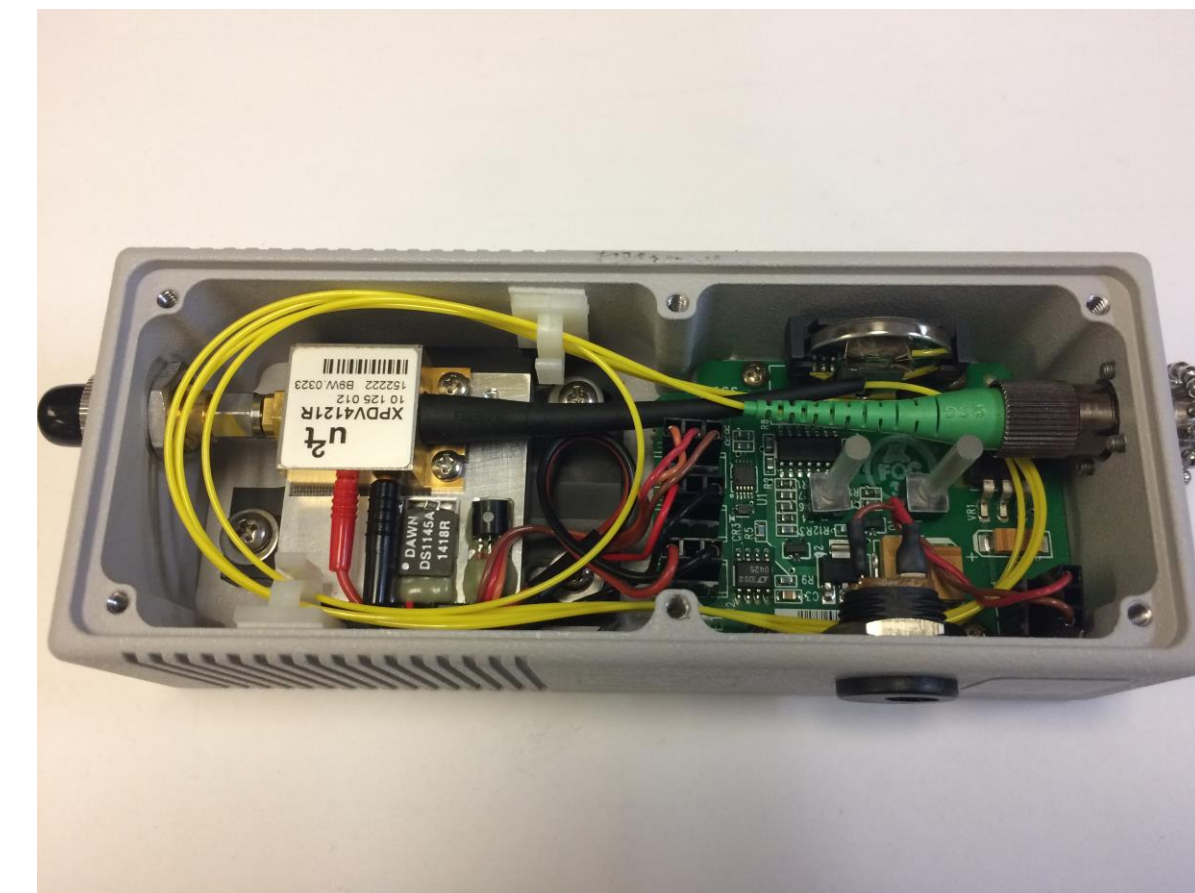
- MN4775A-0070: 70 GHz 1550 nm
- MN4775A-0071: 70 GHz 1310 nm
- MN4775A-0040: 40 GHz 850 nm

MN4765B O/E Calibration Module (850, 1310 or 1550 nm)

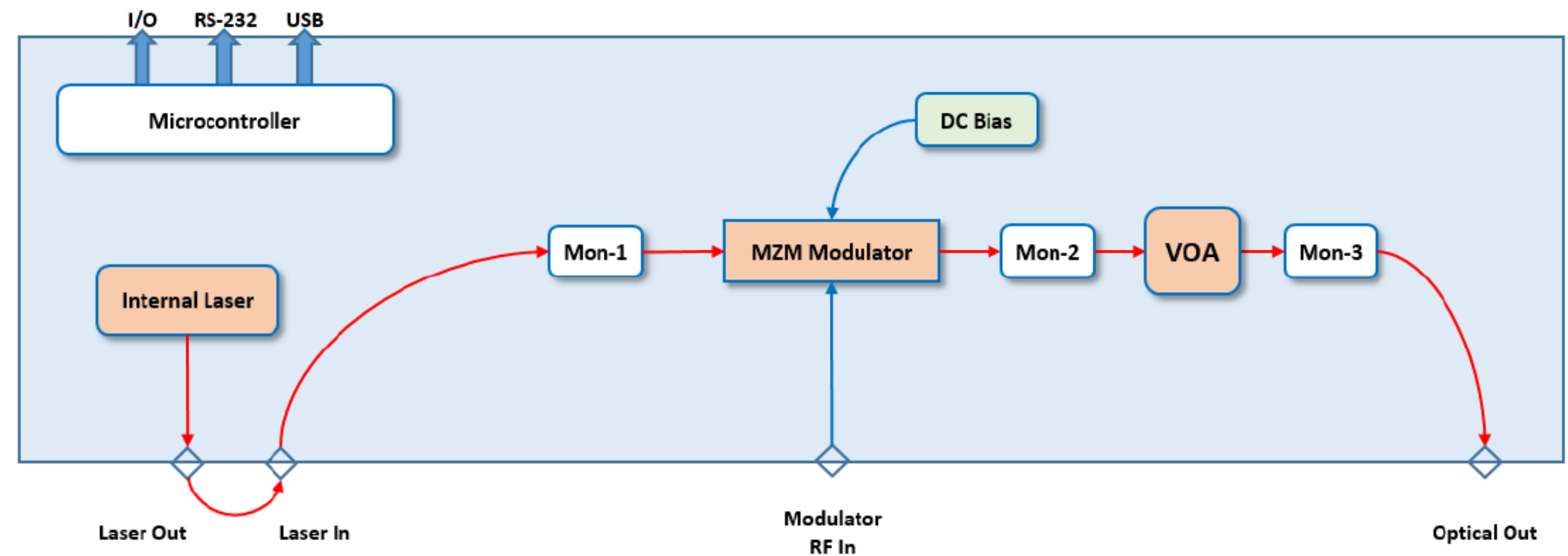


- Protected from physical and static damage
- Bias regulation
- Temperature stable
- NIST derived characterization to from 70 kHz to 110 GHz (magnitude & phase)
- Battery backup
- Improved uncertainties

- Characterized optical front end for both VectorStar and ShockLine VNAs



MN4775A E/O Converter (850, 1310 or 1550 nm)



- Integrated laser, modulator, and automatic bias controller

