400G Compliance & Interoperability Lab
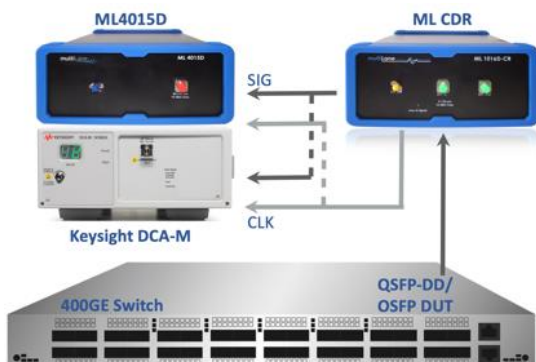## *Coming soon to Silicon Valley*

A Compliance Renaissance

For almost half a decade, MultiLane has provided industry partners with a clear picture of how their optical transceivers would fare in a real-life data hall. Module OEMs, system vendors and hyperscalers alike have seen tremendous value in characterizing their DUT performance in our brand-agnostic test environment. The next phase of this service engagement is our newly announced 400G Compliance and Interop (C&I) Lab, coming to our Fremont, CA office.

In the complex world of signal integrity, not all ports are created equal. This is why we are introducing industry-leading 400GE switches in combination with MultiLane test instruments, unlocking insightful test possibilities. Industry partners from all corners of the market are invited to bring their own optics to our Lab to visualize transceiver performance through the lens of the end consumer. This article highlights the comprehensive test capabilities our environment will support by the beginning of Q3.

TX Characterization

Place a transceiver in a switch and characterize TX performance. Recover a clock signal using our ML1016D optical CDR platform and subsequently measure TDECQ and other transmit parameters using both our own ML4015D optical sampling scope or the Keysight DCA-M.
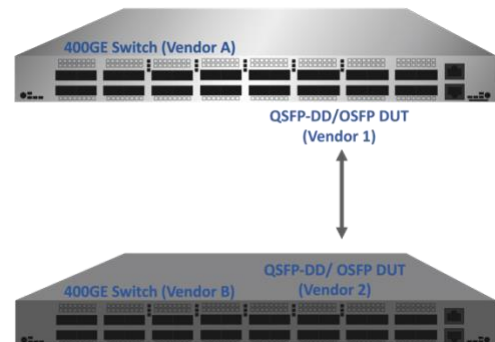

RX Stress and Link Testing

Assess link performance between optics placed in the switch and our ML4054 FEC BERT. Monitor critical metrics like pre-FEC BER, interface counters and RX sensitivity as the optical signal is degraded with our MLO4034 variable optical attenuator.

Environmental Testing

Emulate the harsh ambient environment in Data Centers with our thermal chambers. Conduct any of the mentioned test configurations at any desired temperature.
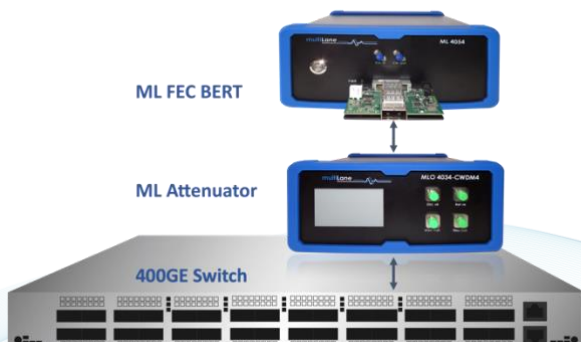
Multi-Vendor Interoperability

Discover any gaps in your transceiver design by monitoring link and DOM statistics in different environments. DUT modules can also be tested against transceivers from other vendors for a complete picture of the scalability of your DUT in modern data centers.
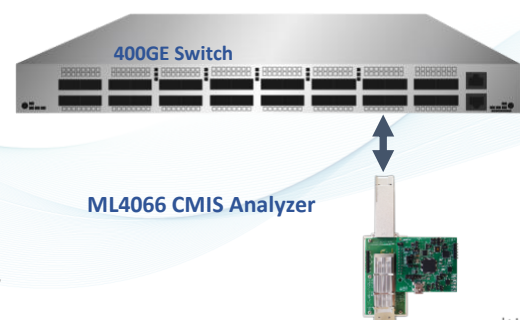

CMIS Compliance

The Common Management Interface Specification (CMIS) has been a hot topic in the industry. Our ML4066 Analyzer enables versatile certification of switches and modules for any desired CMIS release version.

For more information please contact us at sales@multilaneinc.com.

Innovation for the next generation