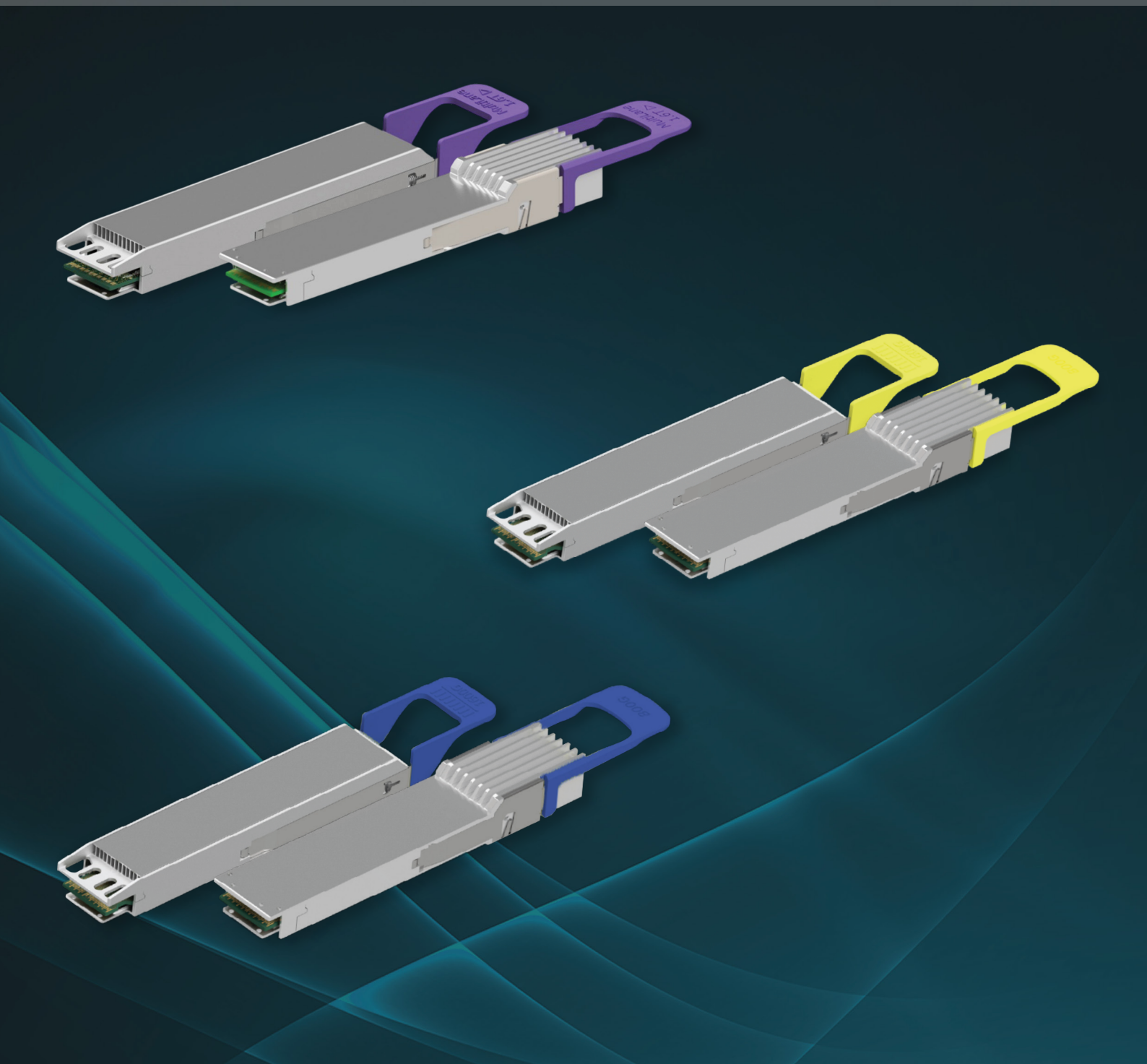
multiLane

MULTILANE LOOPBACK OFFERINGS FOR 1.6T

BROCHURE | 2026



MultiLane Loopbacks Offer Comprehensive Host Port Characterization at 1.6T

Loopbacks are a core competency at MultiLane and a key component of the company's value proposition. As network innovations diversify in the face of a rapidly evolving ecosystem, ensuring host ports can accommodate a variety of interconnects is more important than ever before. The MultiLane Loopback family allows companies to address this challenge in full confidence, with a suite of solutions tailored to this ecosystem.

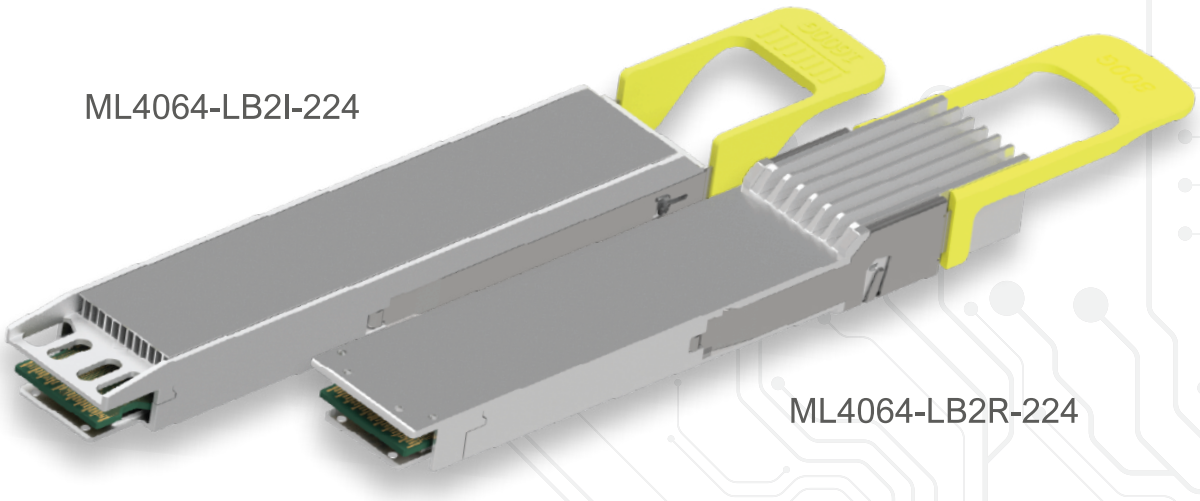
All MultiLane loopbacks for 224 Gbps/lane and 1.6T come in either integrated or riding heatsink options.

Electric (Passive) Loopbacks

Electric Loopbacks (ELB) offer rapid, pass/fail validation of host ports and can emulate passive pluggables like DACs.

Passive Loopbacks

-Up to 45W dissipation
-Available in Type2 IHS and RHS shells
-OSFP1600 compliant shell with angled latch
-Various options for various use cases: front LED/LCD
-4 temperature sensors
-CMIS 5.x compliant with CDB
-I2C and I3C support
-Real insertion counter
-Current sense
-Voltage sense



Passive Loopbacks

Active Loopbacks

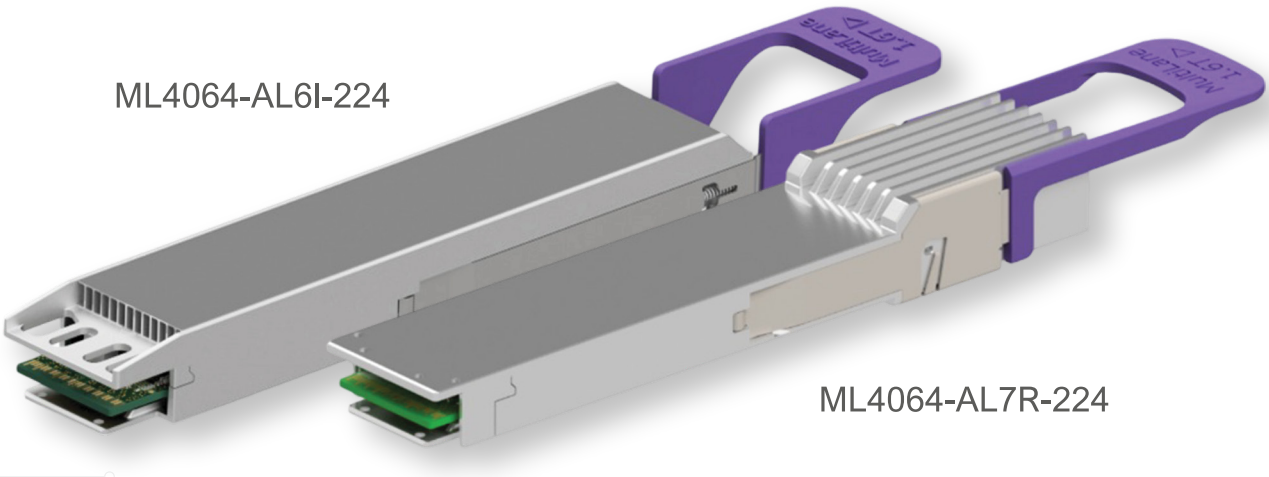
Active Loopbacks (ALB) are DSP-based modules that provide comprehensive host port characterization for lossy ports where passive pluggables cannot recover a signal. ALBs can emulate active pluggables like transceivers and can be equipped with the ThunderBERT GUI to provide instrument-grade measurements directly in port. MultiLane ALBs for 224 Gbps/lane are available with 5 nm (ALB6) or 3 nm (ALB7) DSPs.

5nm Active Loopbacks - ALB6

- Available in Type2 IHS and RHS shells
- OSFP1600 compliant shell with angled latch
- Available with two DSP options ALB6 and ALB7
- CMIS 5.x support with CDB, VDM, DPSM temperature sensors
- Real insertion counter
- Current sense
- Voltage Sense

3nm Active Loopbacks - ALB7

-Available in Type2 IHS and RHS shells
-OSFP1600 compliant shell with angled latch
-CMIS 5.x support with CDB, VDM, DPSM
-In-band Link Training
-FEC Monitoring
-Temperature sensors
-Real insertion counter
-Current sense
-Voltage sense



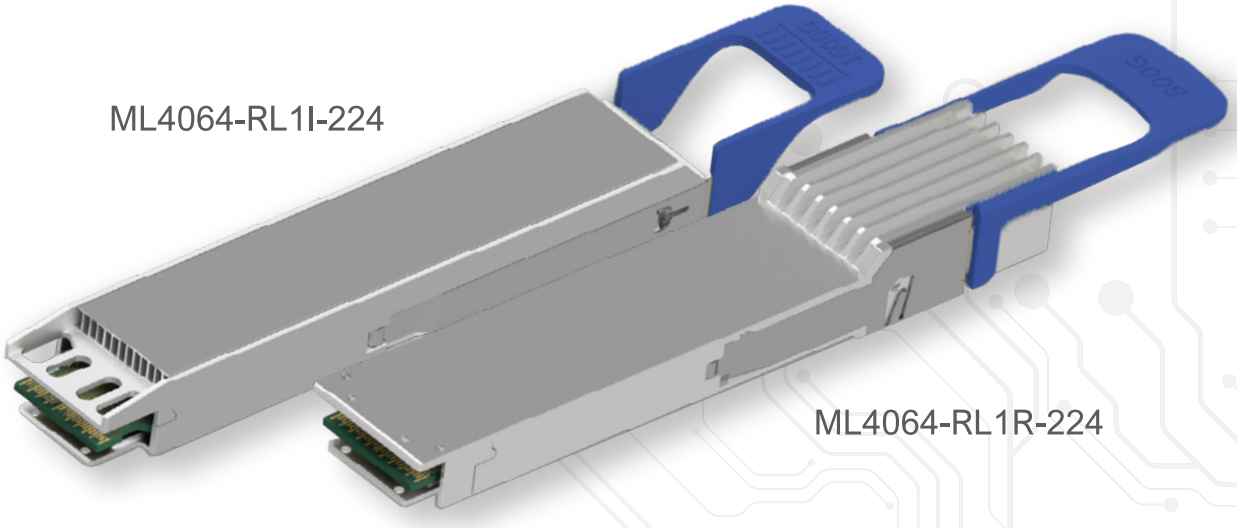
DSP-Based Active Loopbacks

Redriver-Based Loopbacks

Redriver-Based Loopbacks (RLB) feature a redriver to amplify a lossy signal and emulate the redriver-based plug-gables like Active Copper Cables (ACC) and Linear Pluggable Optics (LPO) that have been gaining ground in the 1.6T generation.

Redriver-Based Loopbacks

- 1.6T Redriver-based loopbacks to emulate Active Copper Cable applications
- Up to 40 W power dissipation
- OSFP1600 compliant shell
- Front LED
- Temperature, current, and voltage sensors
- CMIS 5.x compliant with CDB
- I2C and I3C support
- Real insertion counter



Redriver-Based Loopbacks

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0.4	October 2025

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