



## Open Eye Consortium Announces 50Gbps LR1 and LR4 Specifications for Datacenter and Wireless Fronthaul Applications

- *50Gbps LR1 single mode specification is available to the public today*
- *4x50Gbps LR4 single mode specification is available to MSA members*
- *MSA consortium has 38 members including four new contributing members*

**December 7, 2020** – The Open Eye Consortium (Open Eye MSA) today announced two new specifications targeted for 50Gbps per lane applications: LR1 and LR4 for 10 kilometers, based on the CWDM4 wavelength grid, over a single mode fiber. These new specifications complement the Open Eye MSA’s previously released single and multi-mode specifications.

The Open Eye MSA defines the requirements for analog PAM-4 solutions for 50G SFP, 100G DSFP, 100G SFP-DD, 200G QSFP, 400G QSFP-DD and OSFP modules. More information is available at: <https://www.openeye-msa.org/>.

With the growing demand for data, wireless, enterprise and data center technology, network managers are continually looking for ways to drive lower power, smaller size and lower costs. The Open Eye MSA’s specifications provide customers with an alternative to higher power and higher cost DSP-based solutions. These new specifications are ideal for 53Gbps SFP28 Long-Reach (LR) and 200Gbps QSFP Long Reach (LR) optical module designs for next generation 5G wireless, enterprise and data center networking applications.

The Open Eye MSA aims to accelerate the adoption of PAM-4 optical interconnects scaling to 50Gbps, 100Gbps, 200Gbps, and 400Gbps by expanding upon existing standards to enable optical module implementations using less complex, lower cost, lower power, and optimized analog clock and data recovery (CDR) based architectures in addition to existing digital signal processing (DSP) architectures.

A whitepaper is available to view and download [here](#) for interested parties to learn more about the Open Eye’s MSA mission and latest technical information. To access more information about the Open Eye MSA single- and multi-mode specifications please visit: <https://www.openeye-msa.org/>.

The Open Eye MSA is also excited to announce that its membership has grown to 38 members with the addition of Credo Semiconductor, Fuji Xerox, Hisense and Lumentum to its list of members.

The complete list of promoter and contributor members as well as additional information about the Open Eye MSA can be found at [www.openeye-msa.org](http://www.openeye-msa.org).

Companies that are interested in learning more about the Open Eye MSA can contact [admin@openeye-msa.org](mailto:admin@openeye-msa.org).

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