

META-DX2L is a multi-purpose Ethernet PHY supporting rates from 1 GbE to 800 GbE with a broad range of FEC regeneration and termination capabilities. It supports up to 1.6 Tbps capacity in retiming applications and up to 800G capacity in gearbox and 2:1 mux applications. The device features 32 112Gbps PAM4 SerDes, a hitless 2:1 mux, a flexible crosspoint and support for additional protocols, such as Fibre Channel and OTN.

Its SerDes supports CEI-112G-LR-PAM4, CEI-112G-MR-PAM4 and CEI-112G-VSR-PAM4. It can support backplanes and passive Direct Attach (DAC) cables at up to 112 Gbps and can also be configured to reduce power for VSR applications. The hitless 2:1 mux enables high availability architectures and the device latency is deterministic to enable Class C/D PTP at the system level. This device supports Industrial Temperature range.

Benefits

- 1.6 Tbps device enables high-density, 112G SerDes based line cards and fixed form factor switches
- Multiple operating modes enable design reuse across platforms and improves time to market
- Crosspoint enables flexible connection to multiple types of optics or datapaths on a single design
- Deterministic latency enables PTP Class C/D at the system level for 5G-ready equipment
- FEC termination and conversion capability enables support of a wide range of optical modules
- Complete set of SDK APIs to reduce development time

Applications

- Fabric card in a modular switch/router system
- Line card in a modular switch/router system
- Fixed form factor switch/router
- AI acceleration nodes
- Compact optical transport platform

