

OPTICAL DSP

Seagull 202

200Gbps PAM-4 DSP with Integrated DML Driver

Seagull 202 (CFD55401) is a versatile full-duplex device with industry-leading power dissipation that can be used in next-generation QSFP56 pluggable optical transceivers. It supports 200Gbps DR4/FR4/LR4 applications based on PAM-4 modulation. Seagull 202 is ideal for use in hyperscale data centers and campuses.

Seagull 202 employs proprietary DSP technology and equalization techniques to compensate for the impairments and nonlinearities resulting from optics and fiber.

Integrated drivers enable direct connection to DML lasers, eliminating the need for external drivers and simplifying the optics interface.

Seagull 202 has industry leading performance and low power dissipation. It is optimized for optimal component placement and use of standard assembly techniques for high-yield, reliable PCB designs.

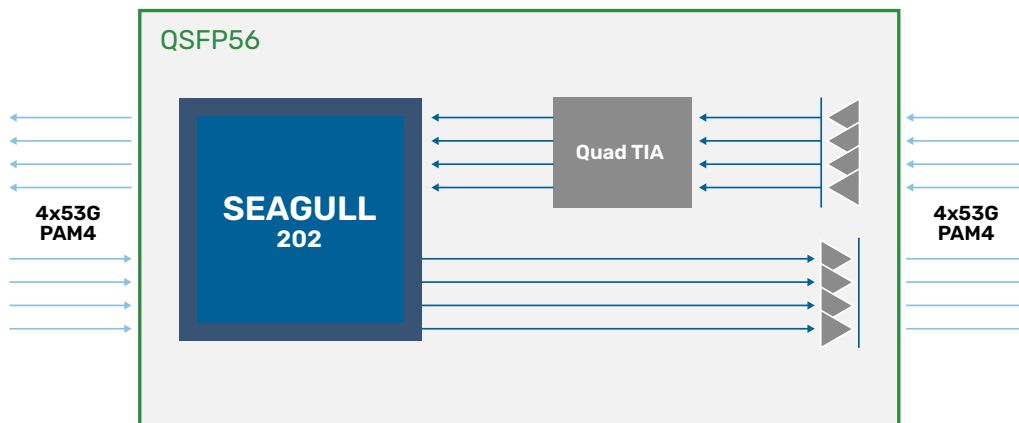


Applications

- Hyperscale data centers
- Cloud networks
- 200GbE optical transceivers

Key Parameters

Host Side	4x53G PAM-4
Line Side	4x53G PAM-4
Operating Temp	0° to 85°C



Key Features

- DSPs with industry-leading performance
- Adaptive CTLE and multi-tap DFE and FFE
- High performance transmitters come with multi-tap FIR filters and non-linear cancellation
- Integrated DML drivers
- Integrated PLLs per lane for flexible configuration
- LOS and LOL detection
- Diagnostic features including pattern generators and checkers, eye monitor and loopbacks
- Optimized, compact firmware
- Low power dissipation

Supported Standards and Interfaces

- 200G-DR4/FR4/LR4
- 400G-SR8
- 200GAUI-4
- QSFP56
- CMIS 4.0 and 5.0

For more information please visit www.credosemi.com or email sales@credosemi.com