

100G CFP2 Coherent 3000 km (OM8569XX100)

# Databrief

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## Product Features

- Transmission reach beyond 3000 km over SMF for 100G
- Hot-pluggable
- Supports 100G PM-QPSK PM-DQPSK modulation
- Supports SD-FEC
- Supports OTU4 signaling
- Compliant with CEI-28G-MR specifications
- Compliant with OTL4.4 signaling
- Compliant with CFP2 MSA Hardware Specification Rev. 1.0
- Compliant with OIF-CFP2-DCO-01.0
- Compliant with CFP MSA Management Interface Specification Version 2.6 (R06a)
- Line & client PRBS generator and checker
- Line loopback, host terminal/facility loopback
- Power consumption: 21 W (100G)



# 1. Application

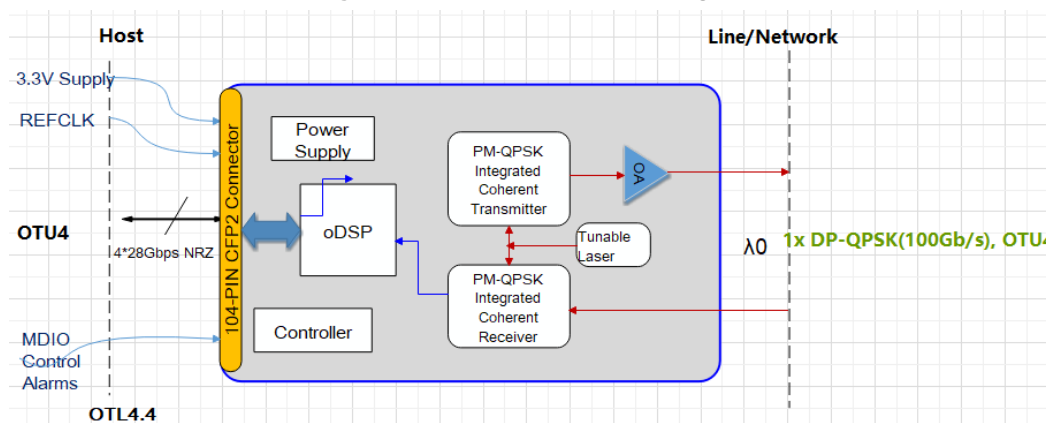
The OM8569XX100 module is designed to be used on the host board of system integrators to support transmission over DWDM links in Metro networks. As shown in Figure 2-1, it comprises high-data lanes, a single reference clock from hosts, a single 3.3 V power supply, an MDIO interface for module control and status report, and dedicated alarm and control pins.

# 2. Description

The OM8569XX100 module uses a 104-pin CFP2 MSA connector for all electrical interfaces with the host card, whereas the optical interfaces on the line side are provided through the optical receptacles on the CFP2. The module can be portioned into three functional parts: Tx path, Rx path and control & power block.

All control interface pins are routed to the MCU and oDSP. The MCU is also used for fast controls inside the module such as modulator bias adjustment, software image management, overall control coordination and status reporting.

Figure 2-1 OM8569XX100 block diagram



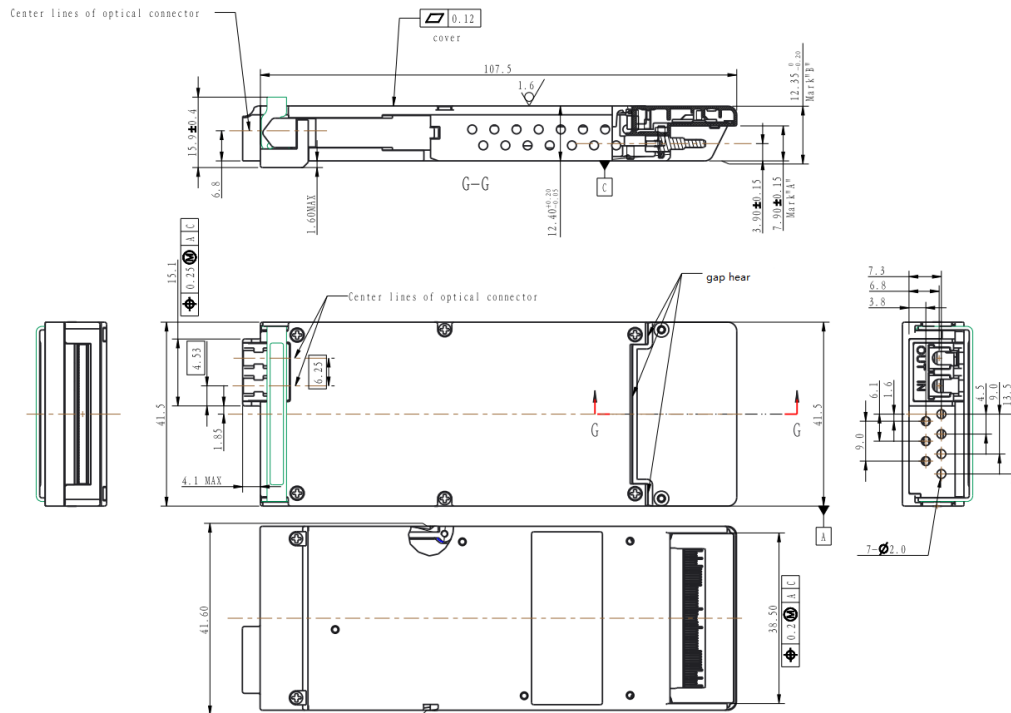
# 3. Mechanical Specifications

The OM8569XX100 CFP2 module is designed to be inserted into a host board with a railing system that includes a heat sink. The module is 107.5 mm x 41.5 mm x 12.4 mm in size and is mechanically compliant with the requirements detailed the CFP2 HW Baseline Design Rev.1L.

## NOTE

Please check whether the cage matches before using the module because of the side has dissipation hole structure. For example, the cage part CN121C-104-0029(H1) (YAMAICHI) has side openings and a side without sharp protrusions.

Figure 3-1 Mechanical dimensions




## 4. Ordering Information

Part Number	Description
OM8569XX100	100G, PM-QPSK, Coherent CFP2

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