

SFP 2488M (Tx) 1244M (Rx) GPON OLT Class D 20 km
(OM5070AX300)

Databrief

Product Features

- Single-fiber bi-directional transmission
- SFP package
- 2 x 10 SFP electrical interface
- Hot-pluggable
- Transmitter: 1490 nm DFB
- Receiver: 1310 nm APD/TIA
- Typical power consumption: 0.9 W
- SC receptacle optical connector
- Operating case temperature: 0°C to 70°C
- 3.3 V power supply
- ODN Class D
- RoHS 2 compliant
- ITU-T G.984.2 compliant

Applications

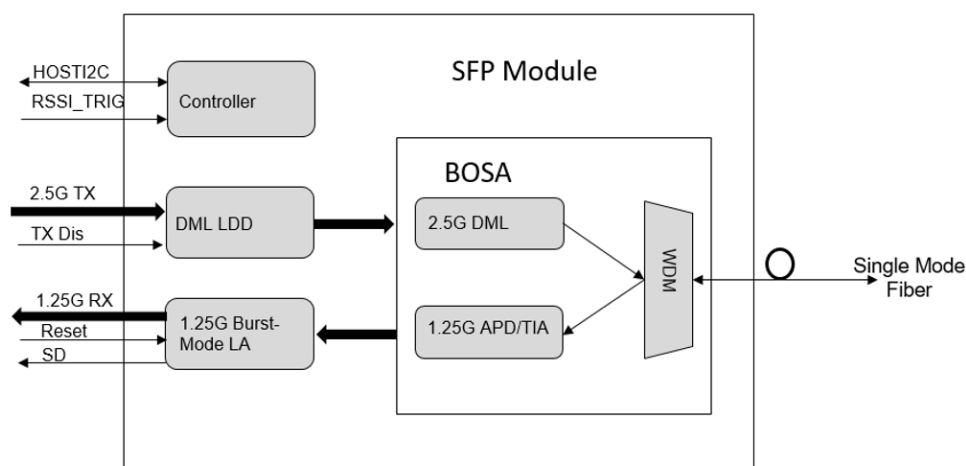
- FTTH
- FTTC
- FTTB
- GPON Access Networks



1. Function Description

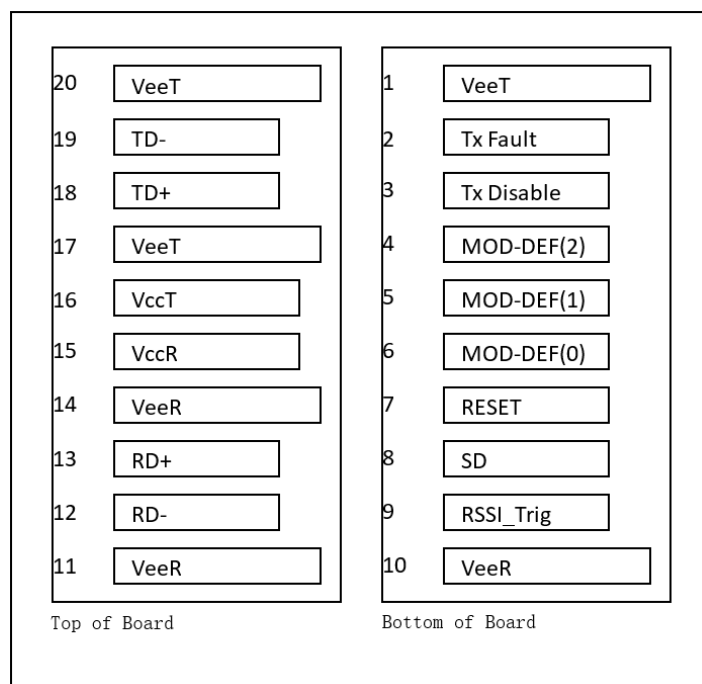
OM5070AX300 module is designed for 20 km optical communication applications, and it is compliant with ITU-T G.984.2 GPON standard. This module can support 2.488 Gbps continuous-mode transmission by 1490 nm DFB laser and 1.244 Gbps burst-mode reception by 1310 nm APD/TIA. The module offers very high functionality and feature integration, accessible via a two-wire serial interface. The optical signals are multiplexed to a single-mode fiber through a standard SC connector. A block diagram is shown in Figure 1-1.

Figure 1-1 Transceiver block diagram



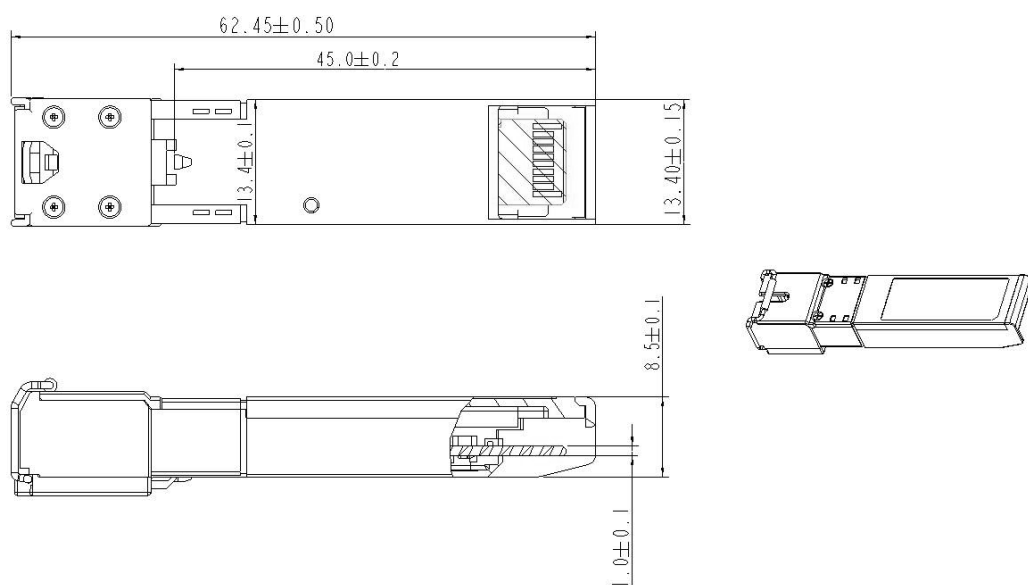
2. Pin Description

Figure 2-1 MSA compliant connector



3. Mechanical Specifications

Figure 3-1 OM5070AX300 mechanical dimensions



4. Ordering Information

Part Number	Description
OM5070AX300	SFP, 2.488G (Down)/1.244G (Up), GPON OLT Class D, 20 km

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