

SFP+ 9953M(Tx)9953M&2488M(Rx)&2488M(Tx)1244M(Rx) XGS-PON&GPON OLT Class D 20 km (OM5270SF301)

# Databrief

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## Product Features

- Single-fiber bi-directional transmission
- SFP+ package
- 2 x 11 SFP+ electrical interface
- Hot pluggable
- Typical power consumption 2.5 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.987.2 compliant
- ITU-T G.9807.1 compliant
- ITU-T G.984.2 compliant

## Applications

- Gigabits Access Networks
- FTTH
- FTTC
- FTTB
- XGS-PON and GPON Combo Access Networks

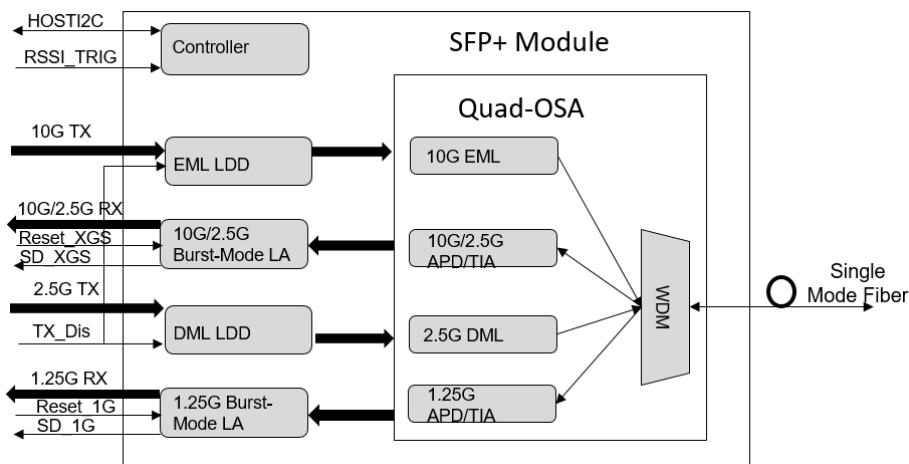


# 1. Function Description

OM5270SF301 is a combination of XGS-PON OLT and GPON OLT optical transceiver in an SFP+ housing, and it is compliant to ITU-T G.9807.1 XGS-PON and ITU-T G.984.2 GPON standard. This module can support XGS-PON and GPON over a single fiber via coarse wave division multiplexing. XGS-PON feature supports 9.953 Gbps continuous-mode transmission by 1577 nm EML laser and 9.953/2.488 Gbps burst-mode reception by 1270nm APD/TIA. GPON feature supports 2.488 Gbps continuous-mode transmission by 1490 nm DFB laser and 1.244 Gbps burst-mode reception by 1310 nm APD/TIA.

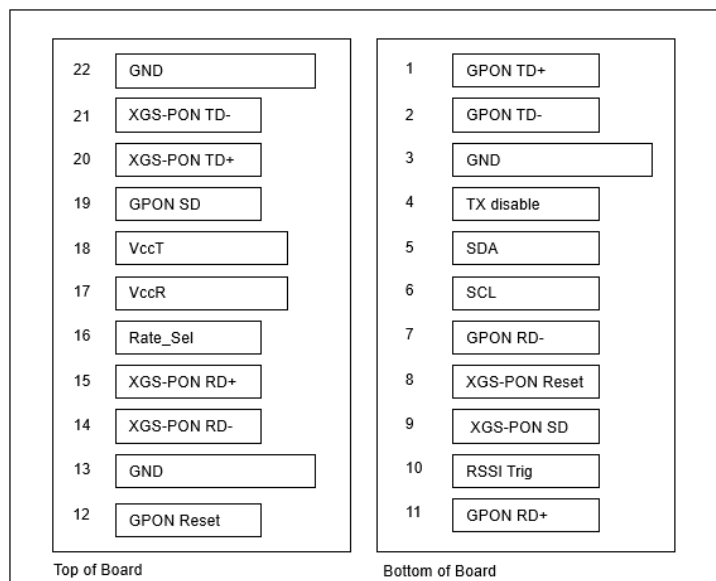
It has been designed to meet the harshest external operating conditions that include temperature, humidity and EMI interference. The module offers very high functionality and feature integration, accessible via a two-wire serial interface. A block diagram is shown in Figure 1-1.

Figure 1-1 Transceiver block diagram



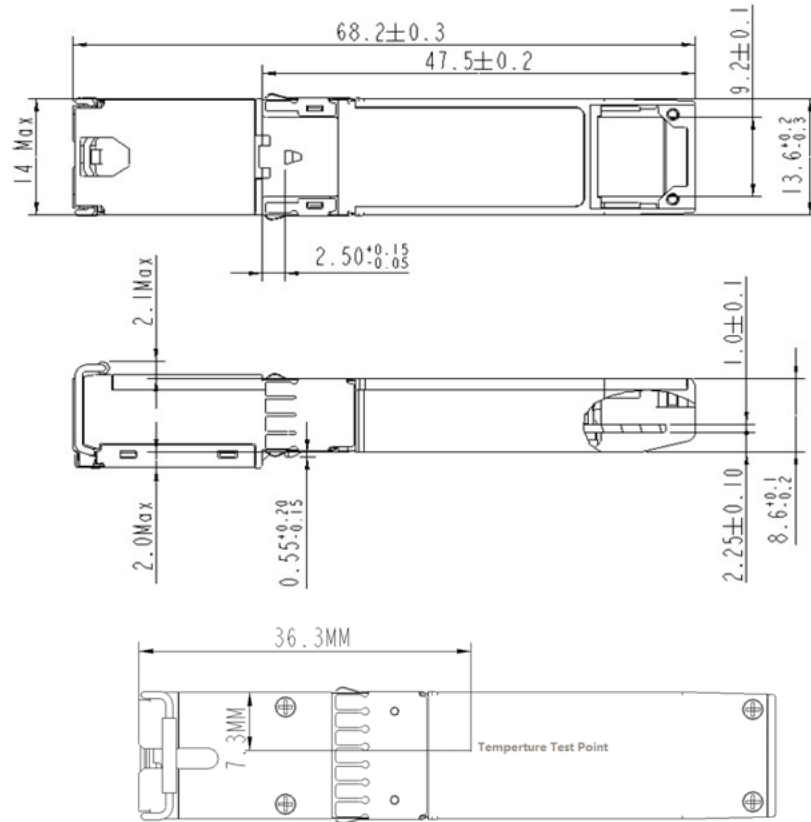
# 2. Pin Description

Figure 2-1 MSA compliant connector



### 3. Mechanical Specifications

Figure 3-1 OM5270SF301 mechanical dimensions



### 4. Ordering Information

Part Number	Description
OM5270SF301	SFP+, 9.953&2.488 Gbps (Down)/9.953/2.488&1.244 Gbps (Up), XGS-PON&GPON OLT Class D, 20 km

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