

SFP+ 9953M(Tx)2488M(Rx)&2488M(Tx)1244M(Rx) XG-PON&GPON OLT Class D 20 km (OM5270AF301)

Databrief

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.984.2 compliant

Applications

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

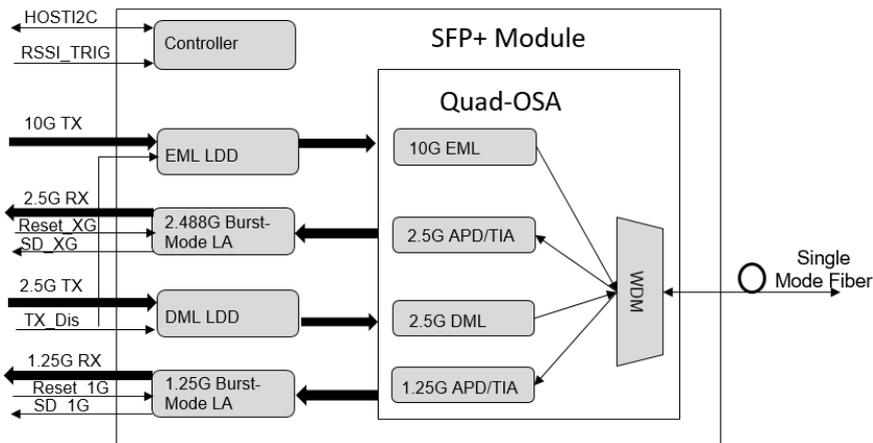


1. Function Description

OM5270AF301 is a combination of XG-PON OLT and GPON OLT optical transceiver in an SFP+ housing, and it is compliant to ITU-T G.987.2 XG-PON and ITU-T G.984.2 GPON standard. This module can support XG-PON and GPON over a single fiber via coarse wave division multiplexing. XG-PON feature supports 9.953 Gbps continuous-mode transmission by 1577 nm EML laser and 2.488 Gbps burst-mode reception by 1270 nm 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.

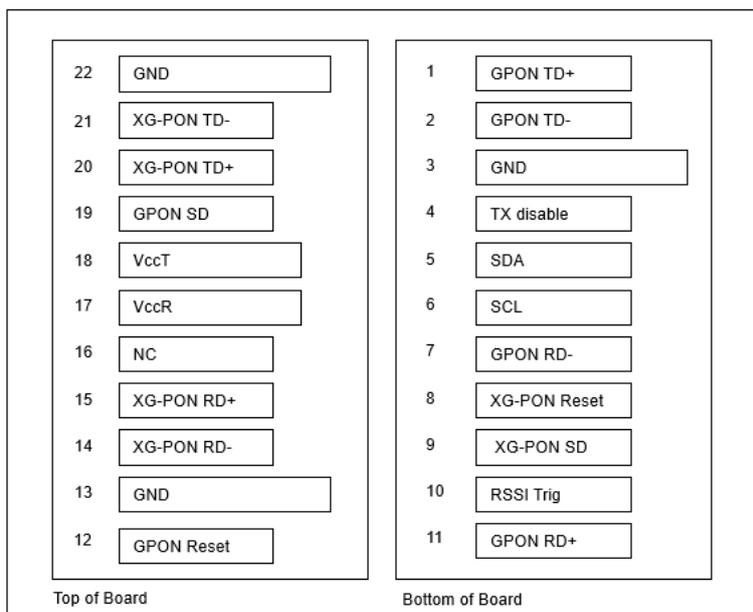
It has been designed to meet the harshest external operating conditions that include temperature, humidity and EMI interference. The module offers very high functionality and feature integration, accessible via a two-wire serial interface. A block diagram is shown in Figure 1-1.

Figure 1-1 Transceiver block diagram



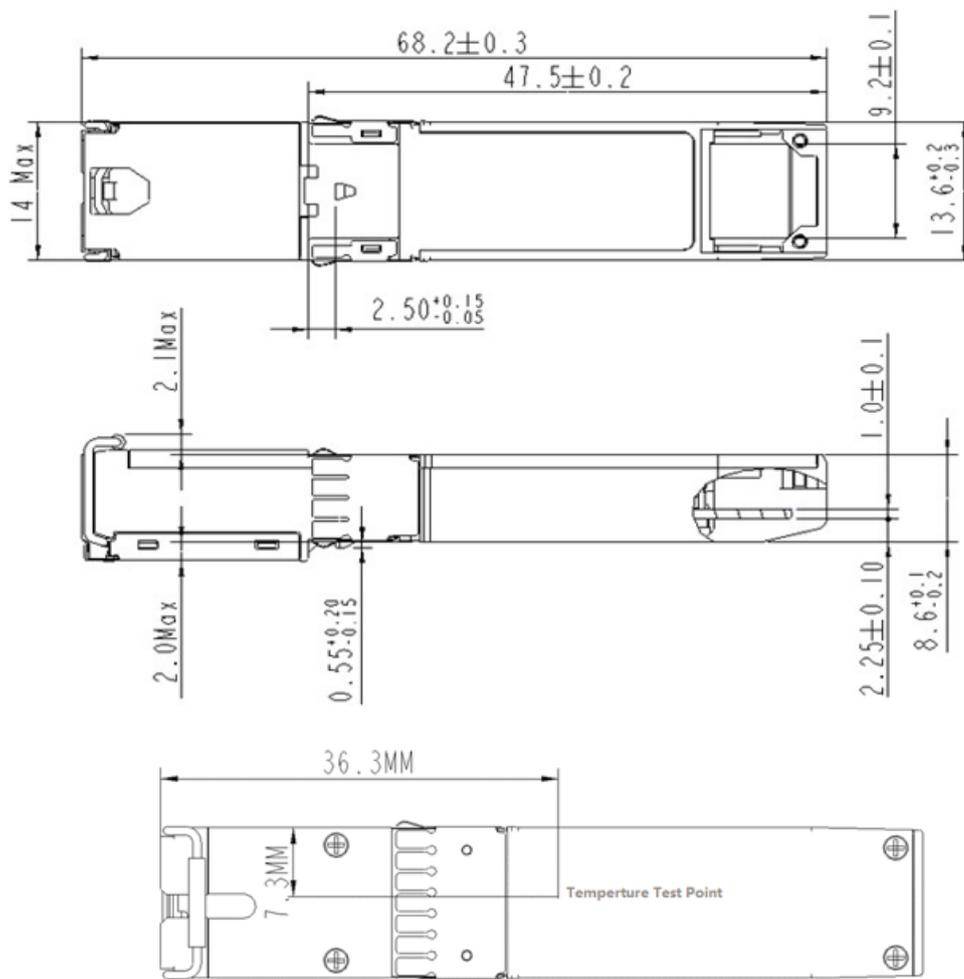
2. Pin Description

Figure 2-1 MSA compliant connector



3. Mechanical Specifications

Figure 3-1 OM5270AF301 mechanical dimensions



4. Ordering Information

Part Number	Description
OM5270AF301	SFP+, 9.953G&2.488G (Down)/2.488G&1.244G (Up), XG-PON&GPON OLT Class D, 20 km

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