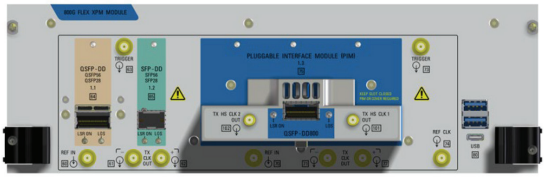
VIAVI Solutions

Application Note

Using 800G ZR and ZR+ Coherent Modules in the VIAVI ONT 800G FLEX XPM

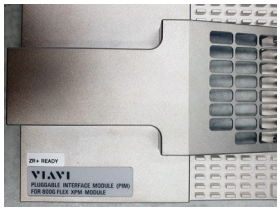
The VIAVI ONT 800G FLEX XPM module, together with the appropriate Pluggable Interface Module (PIM), is ideal for supporting development and evaluation of 800G ZR and ZR+ Coherent Optics

With its rich blend of tools covering unframed BER and error analysis through full traffic generation along with analysis to 800GbE 802.3df, all integrated with C-CMIS application, the ONT 800G XPM fully integrates all coherent module development and validation needs. This is further enhanced when used together with the VIAVI MAP-300 product line on the photonic side.



ONT 800 FLEX XPM Module

The VIAVI ONT XPM PIM (OSFP800 or QSFP-DD800) has been carefully designed for delivering power stability and cooling support to 35 W. To ensure reliable and stable operation the following points should be noted:



1. Ensure your ONT 800G FLEX XPM module and ONT PIM are ZR+ ready per labeling shown in the photos.
2. Ensure the module electrical connector (paddle card) and ONT PIM connectors are in good condition with no visible signs of damage or dirt. At higher powers you can have a lot of current going over the module 3V3 supply pins.
3. When using modules above 32 W be aware that the coherent DSP may have fast transient power demands as advanced DSP functions such as FECs and dispersion compensation are activated. The ONT XPM is carefully designed to manage such transients through careful power integrity design but the overall peak power should not exceed 35 W for more than a few seconds.
4. Ambient temperature may not exceed 25°C.
5. The VIAVI ONT-800 FLEX XPM must have clear and unobstructed airflow. We recommend at least 50 cm on each side of the equipment.

For more information, contact your VIAVI account representative or visit viavisolutions.com

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