



1.25G OTN IP Solution

Combining an ODU0 Framer with ODU0 and OPU0 overhead processing, Altera's 1.25G OTN IP solution provides support for 1 GbE and 1G FC client rates and is fully customizable per user requirements.

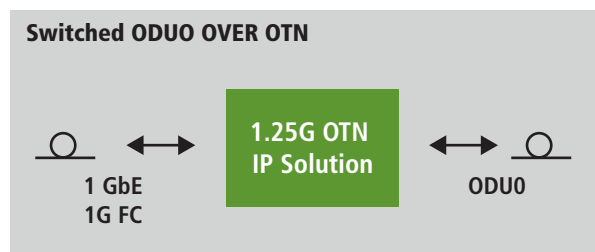
General Features

- 1.25G throughput
- ITU-T G.709 amendment 3 and ITU-T G.798 recommendation compliance
- Generic CPU interface for control and monitoring
- Frame delineation using FAS, MFAS
- OOF/LOF monitoring
- Independent transmit and receive processors with external ports for O/H insertion and extraction
- Optional bypass modes
- Up to 6 levels of TCM O/H; Configurable layer cascading
- Client side support for 1Gbps Ethernet or 1G FC

Key Features

- Solution is customized per user requirements
- Hardware proven solution

1.25G OTN IP Application



OTN Standards Support

Framing

- FAS - Frame Alignment Signal used to frame up and to identify OOF and LOF conditions
- MFAS – Multi-frame structure via a Multi-Frame Alignment Signal byte

OTU0 Path Overhead Monitoring

- Trail Trace Identifier (TTI) monitoring
- BIP-8
- Backward Defect Indication (BDI)
- Backward Error Indication (BEI)
- AIS Maintenance Signal Detection
- OCI Maintenance Signal Detection
- Tandem Connection Monitoring (TCM)
- LCK Maintenance Signal Detection

OPU0 Path Overhead Monitoring

- Payload Structure Identifier (PSI)
- Payload Type (PT)
- Justification Control (JC)

GFP Mapping

Altera's 1.25 OTN IP solution is compliant with G.709 amendment 3 regarding mapping 1000BASE-X into OPU0 via GFP-T, supporting GFP-T Transcoding, Generic Mapping Procedure (GMP) mapping/de-mapping and 8B/10B PCS for 1000BASE-X.

Ethernet LAN PHY Support

Altera's 1.25G OTN IP solution supports 1 GbE and 1G Fibre Channel clients. The 1.25G OTN IP Solution implements Ethernet PCS (Physical Coding Sublayer) and MAC (Media Access Controller) statistics modules.

Want to Dig Deeper?

For more information about Altera's 1.25G OTN IP solution, please contact your Altera sales representative or FAE, or visit www.altera.com.

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