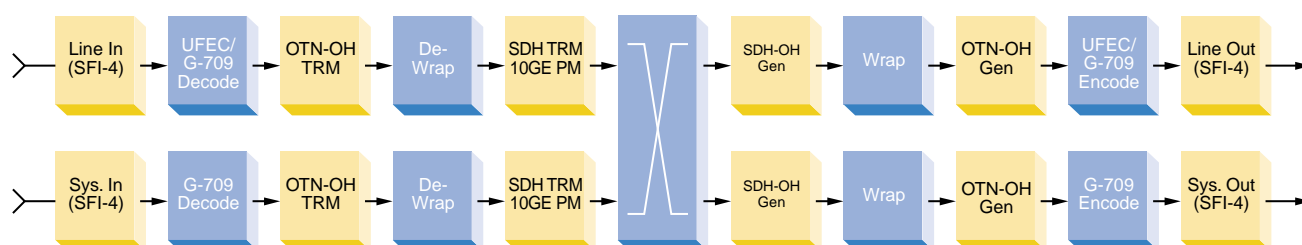


Features	Benefits
<ul style="list-style-type: none"> Fully transparent asynchronous aggregation of four 2.5 Gbps tributary signals into an OTU2/ODU2 	<ul style="list-style-type: none"> Enables more efficient bandwidth usage, leading to lower investment cost for transport systems. Allows direct connection of asynchronous lower rate client signals in a transport system that can be fully transparent and invisible to the payload.
<ul style="list-style-type: none"> Specific networking capabilities for 10 GbE, SONET/SDH and OTN signals 	<ul style="list-style-type: none"> Enables MSPPs capable of handling different client signals. The processor can be used as a full SONET/SDH framer for OC-48 or OC-192, monitoring 10 GbE or processing OTN signals.
<ul style="list-style-type: none"> Strong, adjustable FEC 	<ul style="list-style-type: none"> Provides superior coding gain and can be configured to meet the performance needs of a variety of platforms (Metro, LH, ULH, submarine). Enables denser packing of colors in a fiber to reduce equipment cost.
<ul style="list-style-type: none"> High integration networking support for different payloads including 10 GbE and aggregation of multiple different signals 	<ul style="list-style-type: none"> Supports high density boards (for example, an 8-port OC-48 framer) with greater real estate savings. Service providers can directly transport and monitor 10 GbE payloads.
<ul style="list-style-type: none"> Pin and software compatibility throughout the product family 	<ul style="list-style-type: none"> One board can be reused with different platforms (from Metro to ULH), helping to reduce cost. One software development, quick adaptation of new features into an existing platform (i.e. aggregation).

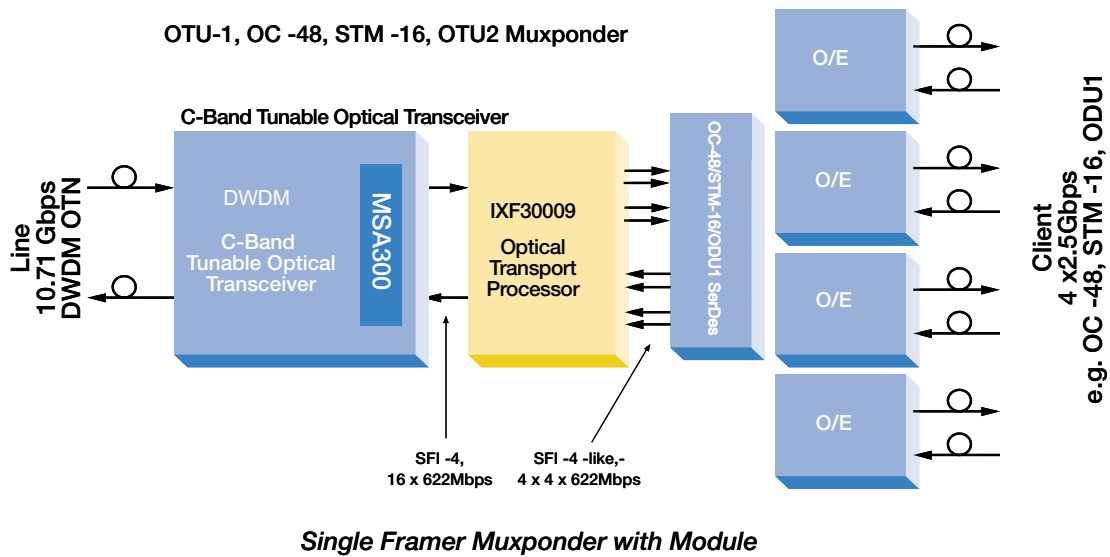
Key Applications

- Optical Transport Networks (OTN)
- Forward Error Correction (FEC) regenerators
- Multi Service Provisioning Platforms (MSPPs)
- SONET/SDH Add/Drop Multiplexers (ADMs)
- Submarine and ULH FEC
- Low cost 10 G/2.5 G Metro and Core networks
- High density line cards for 2.5 G networks (4 bi-directional ports)
- 10 GbE LAN transport and monitoring

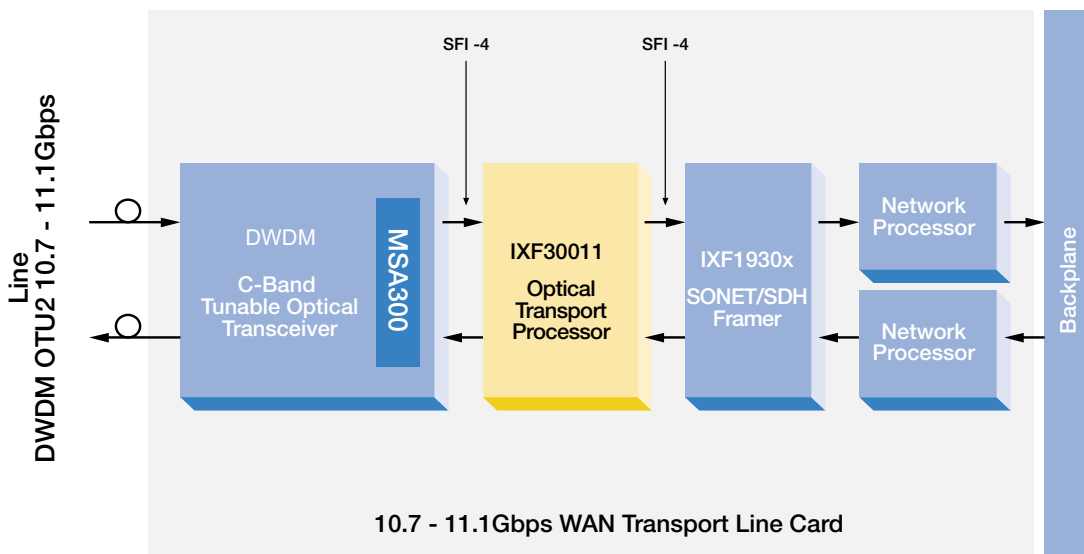
Architecture Block Diagram



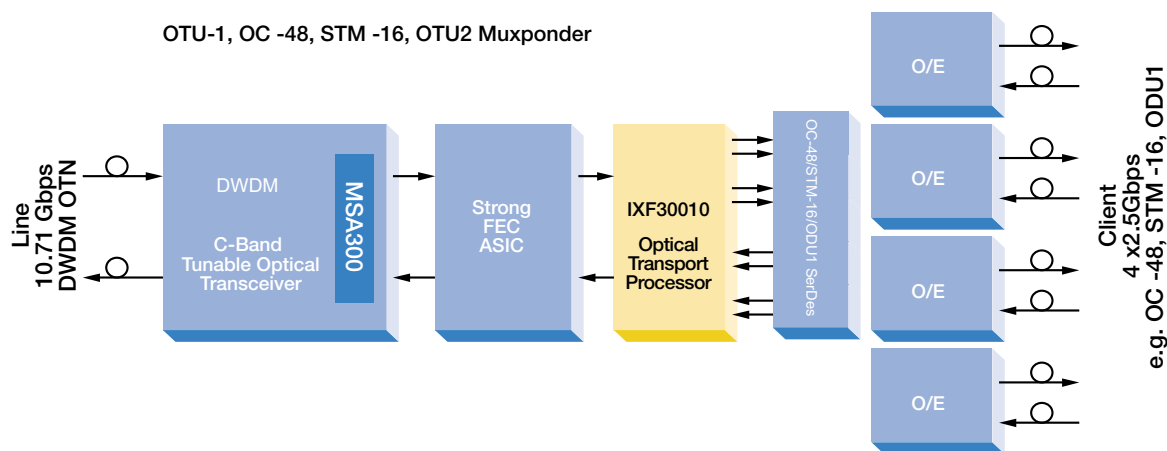
10 G Metro Muxponder Line Card for MSPP and DWDM Systems



OTN/SONET Router Line Card



10 G Metro Muxponder Line Card for MSPP and DWDM



Standalone FEC ASIC + IXF30009/30010 for transparent aggregation

Cortina Advantage

- The IXF30009 is a G.709 compliant Optical Transport Processor, which covers most OTN applications on a single chip. It is the successor of the IXF30001/3/5/7 devices and builds on this expertise. In addition to previous devices, the IXF30009 device supports fully transparent asynchronous aggregation of four 2.5 Gbps tributary signals into an ODU2 signal. It offers very strong proprietary enhanced FEC coding while maintaining the G.709v2 frame format. The FEC performance can be adjusted by changing the FEC overhead rate (for example, 4%, 7%, 15%, 25%) yielding a net electrical coding gain of up to 10 dB.
- The IXF30009 Optical Transport Processor offers complete SONET/SDH section and line termination on all incoming signals, either OC-48 or OC-192, and can perform monitoring on 10 GbE signals. The device I/Os are compliant to the OIF-standard SFI -4.
- The IXF30010 and IXF30011 devices are designed for 10 Gbps and Metro applications, respectively, and provide low cost solutions.

Cortina in Communications

Cortina is a leading supplier of intelligent communication solutions through continuous innovations in advanced port processing and intelligent port connectivity to the Core, Metro, Access and Enterprise Market Segments. With our state-of-the-art high speed analog digital integration, we deliver a wide suite of products that address our customers'

performance, density and flexibility needs enabling faster time-to-market, longer time-in-market, and increased revenue opportunities. Working closely with our customers to understand their system requirements and anticipate their needs, we are creating the foundation ingredients for new generations of services.

*Other names and brands may be claimed as the property of others.



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