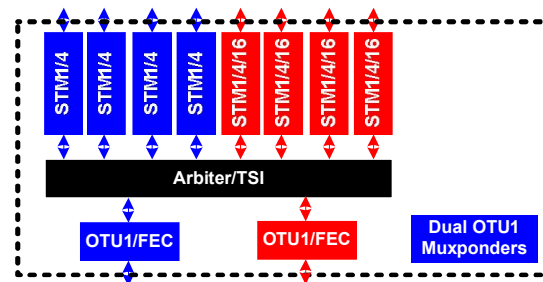


The MuxPonderSTM-OTU1 IP provides an SOC high capacity transport solution fit for metropolitan and long haul applications over OTN networks. Versatile and FPGA proved, the SOC IP aggregates STM1/4 client signals at full line rate into OTU1 line interfaces. The IP allow customers to implement orthogonal Dual MuxPonders in the same system.

Features

- Eight Client stm1/4/16 interfaces
- Two OTU1 line side interfaces
- Line and section termination of SONET client and line signals
- Transparent pass through path overhead for end to end SONET clients
- In-band end to end management communications via DCC channels between MuxPonders
- APS ready
- Performance and alarm monitoring and generation
- Redundant FE connections for backplane management applications
- Optical and signal performance monitoring
- Integrated CPU for management
- Serial port interface to management station

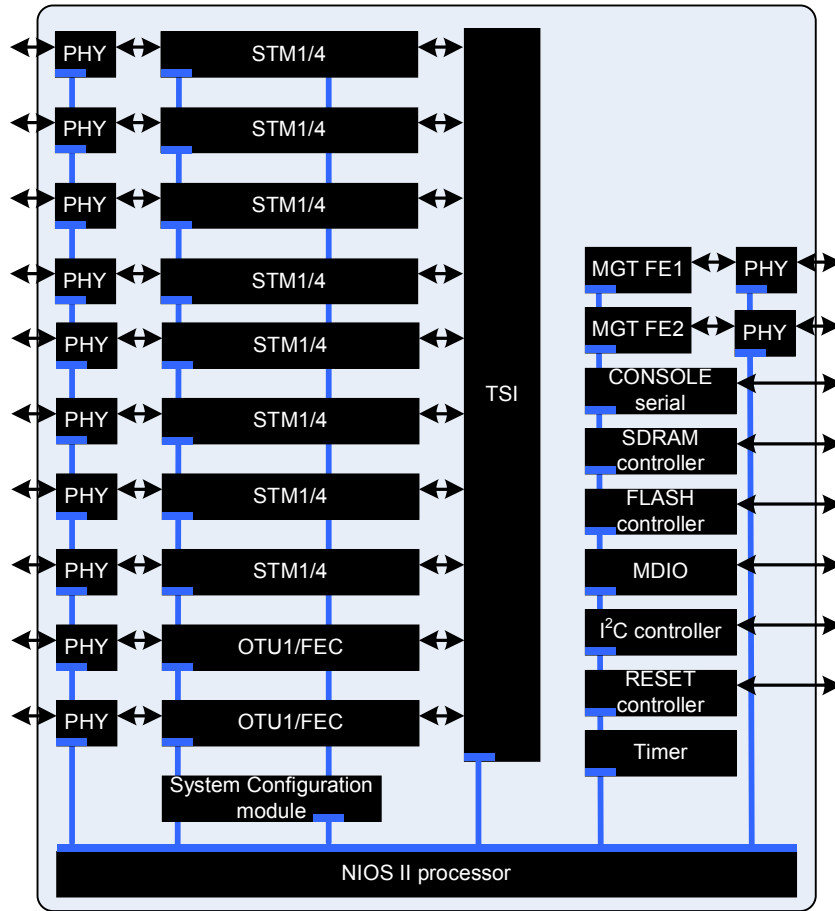
Signal mappings



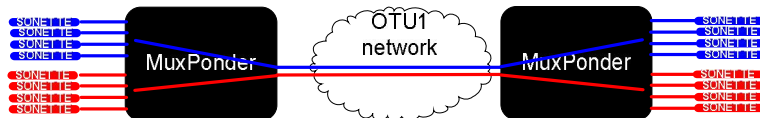
Applications

- Enables leased line service through creating a transport link end to end
- Enables interconnections between different access network terminating equipment such as WIMAX, DSLAM, CABLE and PON OLT
- Interconnecting switches and routers over a geographically distributed client networks
- Enables independent realization of Dual MuxPonders in the same system

SOC Block Diagram



Network Application



Client and Line Side Optical Interfaces

Client Type	8 STM1/4 SFP ports
Line Type	2 OTU1 SFP ports
Line Aggregation Options	STM1/4 <> OTU1
Transmission Testing	Loopback on client and line interfaces

Performance Monitoring

Monitoring intervals	15 minutes / 24 hours
Physical Layer	SFP Optical Power, SFP Laser Bias Current, SFP Supply Voltage and Temperature
SONET	B1, B2, LOS, LOF, SEF, AIS-1, AIS-P, REI-1, RDI-1, LOP-P, P-BIP
OTN	BEI, BDI, BIP-8, BIAE, IAE