

Interfaces

- Up to 8 SONET/SDH Network interfaces (working and protection); 2 may operate at OC-12/STM-4 rates
- SONET/SDH Transport and Path overhead interfaces
- Two 622-Mbit/s Extended Serial SONET/SDH interfaces (ESSIs)
- Line side serial interface for up to 12 DS3s or E3s
- System-side 77.76 Scalable Bandwidth Interconnect (SBI336) bus for high-density interconnection of up to 336 T1 streams, 252 E1 streams, 12 DS3 streams, 12 E3 streams, or 12 arbitrary rate streams
- System-side serial interface for up to 12 DS3s or E3s
- Flexible bandwidth interface for up to 12 fractional rate links
- 32 Mbit/s synchronous TDM interface (based on H-MVIP)
- Microprocessor- and IEEE 1149.1-compliant JTAG interface
- 16-bit microprocessor interface
- Supports transparent virtual tributaries (TVT) where VT1.5/TU-11 and VT2/TU-12 payloads are transported intact between the line side and the SBI336 bus with pointer processing and low order path processing; TVT mode is configurable on a per-tributary basis
- Provides optional jitter attenuation on the T1/E1 transmit and receive paths, and DS3/E3 transmit and receive paths including DS3/E3s demapped from SONET/SDH

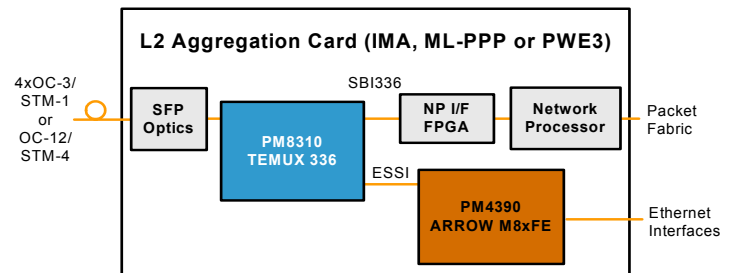
Package

- 896-pin FCBGA (31 x 31 mm)
- Supports industrial temperature range (-40 °C to 85 °C)

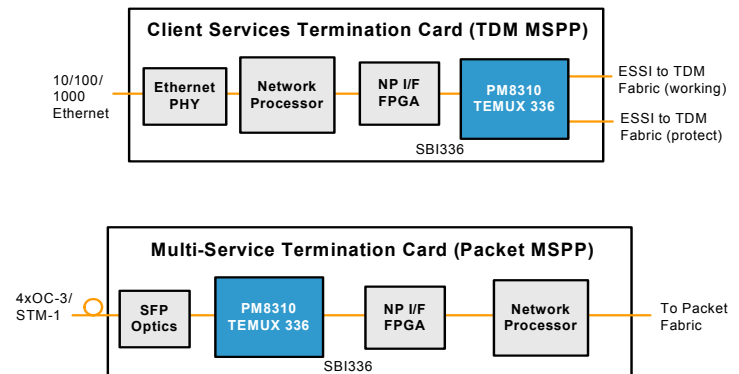
Applications

- ATCA/AMC-based line cards
- Voice and media gateways
- Wireless base station controllers (BSC) and radio network controllers (RNC)
- Routers and multi-service switches
- Edge aggregation switches
- Multi-service provisioning platforms (MSPP) / Optical Transport Platforms (OTP)

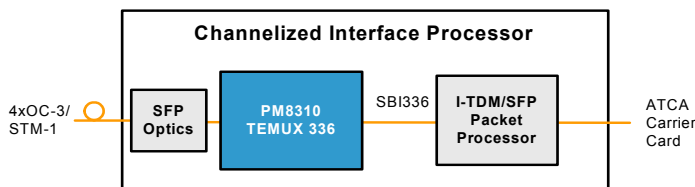
Router/Multi-Service Switch



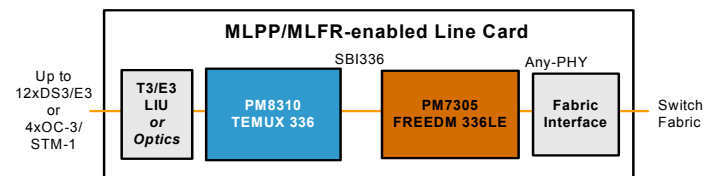
MSPP and Packet OTPs



ATCA 3G RNC & Gateway



3G Base Station/Radio Network Controller



Further Resources

Wireline Equipment Solutions

www.pmc-sierra.com/ethernet-sonet-sdh-mac-framer-controller-chips

Technical Documentation

www.pmc-sierra.com/products/DocFind.html

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