PM5326 ARROW 2x192 SONET/SDH Transport Framer/Aggregator for OC-48 and OC-192

Released Product Brief

• Dual SONET/SDH framer/aggregator for use in channelized

• 20 Gbit/s aggregate capacity. Each of the two framers within the

• Supports two STS-192/STM-64 streams via two standard OIF SFI-4

interfaces (duplex 16-bit 622 MHz LVDS) for direct connection to

• Supports up to eight STS-48/STM-16 via SFI-4 interfaces operating

connection across system backplanes. Each interface consists of

· Provides two sets of working, protect, and APS interfaces for

four ESSI (Extended SONET Serial Interface) RASIO 3G links,

arbitrarily concatenated (STS-3cxN) traffic. Changes in traffic

Terminates (or monitors) SONET/SDH Section. Line. and Path

overhead and provides STS-1 granularity frame alignment and

• Detects and inserts transport and path BIP-8 errors (B1, B2, B3).

Detects signal degrade (SD) and signal fail (SF) threshold crossing

• Supports channelized (down to STS-1), concatenated, and

configurations are automatically detected.

STS-192/STM- 64 and STS-48/STM-16 applications.

device can be independently configured to support:

Four STS-48/STS-48c/STM-16/STM-16c streams.

SERDES and CRU/CSU devices.

operating at 2.488 Gbit/s.

One STS-192/STS-192c/STM-64/STM-64c stream.

FEATURES

in nibble mode.

• Provides overhead passthrough for entire TOH, and re-mapping for B1, B2, M0/M1, and J0 bytes.

- Provides dedicated pins to extract and reinsert the entire transport overhead.
- Provides dedicated pins to extract section and line DCC.
- Supports Automatic Protection Switching:
 - K1/K2 byte filtering and BER monitoring.
 - Direct line card APS connections via system side APS ports.
- Supports centralized control of SONET/SDH processing by providing in-band status messaging (Transport, Path, and Equipment Status) on the ESSI ports.
- Provides independent STS-1 Memory Switching Units (MSU) for combined time-slot interchange (TSI) and muxing functions in transmit and receive directions.
- Provides independent STS-1 Memory Switching Units (MSU) at the DROP APS port for grooming traffic to support line card pairing or local traffic termination.
- Can be configured in line to line mode (SFI-4 to SFI-4) while independently adding/dropping traffic to/from working and protect system interfaces:
 - Supports STS-192/STM-64 or STS-48/STM-16 passthrough, or aggregation of 4xSTS-48/STM-16 via SONET multiplexing or byte interleaving.
- Provides line loopback from the line side receive streams to the transmit streams and supports diagnostic loopback on the system side interface.



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Block Diagram

alarms for B2 and B3.

pointer processing.

GENERAL

- General purpose 16-bit microprocessor interface for configuration, control, and status monitoring.
- Low power 1.2 V core with 2.5/3.3 V I/O.
- Standard 5-signal IEEE 1149.1 JTAG test port for boundary scan board test purposes.
- 1292-pin FCBGA package.

Typical Applications

Cross-Connect

APPLICATIONS

- Multi Service Provisioning Platforms (MSPP).
- Sub Wavelength Cross Connects.
- Add/Drop Multiplexers.
- DWDM Platforms.
- Channelized Routers and Multi Service Switches.



20G Line Card with Local Layer 2 Processing



Further Resources

Technical Documentation

www.pmcs.com/resources/downloads_support.html

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