PM8318 TEMAP 168 High Density T1/E1 Framer with Integrated VT/TU Mappers and M13 Muxes

Released Product Brief

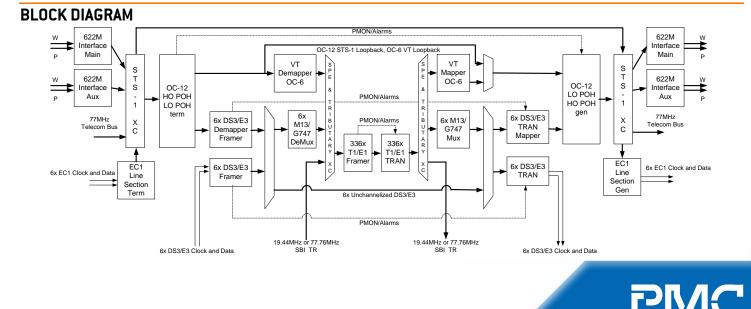
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FEATURES

The PM8318 TEMAP 168 is a high density T1/E1 framer with integrated VT/TU mappers and M13 multiplexers. This feature-rich device is ideally suited for applications performing high-density transport or termination of channelized DS3 or unchannelized DS3, E3, T1, or E1 over existing SONET/SDH facilities.

- Processes 168 T1s/126 E1s or half of an STS-12/STM-4.
- Integrates SONET/SDH and DS3/E3 functionality as well as 168 T1/126 E1 bidirectional PMON-capable transceivers.
 - SONET/SDH functions include high order path processing, low order path processing, T1/E1 to VT/TU mapping, and DS3/E3 to AU-3/TU-3 mapping.
 - DS3/E3 functions include six DS3/E3 bidirectional PM0N-capable transceivers and six M13 multiplexers.
- Line side interfaces include:
 - A 77.76 MHz byte wide parallel TelecomBus supporting an STS-12/STM-4.
 - Two Working and two Protect 622 MHz serial TelecomBus interfaces supporting a full STS-12/STM-4 of traffic.
 - Six serial DS3/E3/EC-1 links.
- System side interface is a 19.44 MHz or 77.76 MHz byte serial SBITR bus used to connect T1/E1 line interface units.
- Provides an input and output STS-1 level cross-connect to:
 - Groom incoming and outgoing data streams; or

- Connect two TEMAP 168 devices in parallel to process a full STS-12/STM-4 of bandwidth.
- Provides a serial interface for extracting and inserting the low order path and the high order path.
- Supports bit asynchronous mapping of T1/E1 tributaries into SONET/SDH.
- Generates and terminates Low Order Path overhead (V5, J2, Z6, Z7 bytes).
- Provides Full Duplex performance monitoring for T1, E1, DS3, and E3 tributaries provided for add and drop directions.
- Supports inband error reporting by updating the REI, RDI, and auxiliary RDI bits in the V5 byte (G1 byte for TU-3) with the status of the received tributary.
- Supports M13 and C-bit parity DS3 formats.
- Provides High Order Path overhead (J1, B3, C2, G1 bytes) processing and the corresponding errors and indications.
- Each T1 transceiver can be independently configured to support the common DS1 signal formats (with full SF/ESF support or partial SLC®96 support) or bypassed (unframed mode).
- Provides in-line DS3/E3 and T1/E1 framers and transmitters for each data path allowing true bi-directional performance monitoring of each path.
- Each T1 transceiver:
 - Detects the presence of Yellow and AIS patterns.
 - Integrates Yellow, Red, and AIS alarms.



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- Supports ingress performance monitoring, ESF bit-oriented codes, HDLC messages on the ESF data link, inband loopback codes, and PRBS generation/detection.
- Each E1 transceiver:
 - Detects the presence of remote alarm and AIS patterns.
 - Supports ingress performance monitoring, support for HDLC messages in the National Use bits, Sa-bit codewords, and V5.2 link ID detection.
 - Contains desynchronizers and jitter attenuators (JATs) that provide Jitter and Wander compliant E1, T1, DS3, and E3 physical interfaces without the need for external jitter attenuators.

TYPICAL APPLICATIONS

T1/E1 LINE CARD

- Provides an input and output T1/E1 tributary cross-connect to allow switching of tributaries between the VT/TU mapper, M13 multiplexer and SBI TR bus.
- Integrates Red and AIS alarms.

APPLICATIONS

- High Density T1/E1/DS3/EC1 line cards.
- Ported or Portless TransMux cards.
- Integrated Test Access on Fabric cards.

INTEGRATED TEST ACCESS

Additional device capacity can be used Add Integrated Test Access to Fabric Card for for other applications such as transmux T1/E1/DS3 performance monitoring capabilities Serial Interface 84/63 T1/E1 W PM8318 PM4329 WSE TUPP TEMAP 168 HDLIU Interface to Magnetics SBI-TR 622M ESSI 622 Mbit/s Backplane Interfaces PM8318 TEMAP 168 12-PORT DS3/E3/EC-1/TRANSMUX LINE CARD VT/TU Server Card 6 x DS3/EC-1/ PM8318 77 MHz OR E3 LIU TEMAP 168 **TelecomBus** Serial Interface TSE W 6 x DS3/EC-1/ PM8318 622 Mbit/s E3 LIU **TEMAP 168** Backplane Interface 622M ESSI Ρ PM8318 TEMAP 168 **PORTLESS TRANSMUX WITH TBS 2488** Interworks 672 Full Duplex of T1 Channels STS-1 Server Card between Channelized DS3 and SONET VT PM8318 (1.25G/STS-24 Bi-directional Portless 622 Mbit/s TEMAP 168 Transmux) Interfaces DS3 ports can be accessed PM8318 PM5309 **TEMAP 168** on this card if electrical TBS 2488 access is required. PM8318 **TEMAP 168** 2488 Mbit/s **Backplane Interfaces** PM8318 **TEMAP 168** Easily scales to higher capacities

Corporate Head Office: PMC-Sierra, Inc. Mission Towers One 3975 Freedom Circle Santa Clara, CA, 95054, U.S.A. Tel: 1.408.239.8000 Fax: 1.408.492.1157 Operations Head Office: PMC-Sierra, Inc. 100-2700 Production Way Burnaby, BC V5A 4X1 Canada Tel: 1.604.415.6000 Fax: 1.604.415.6200 PMC-2031051 (R5) © Copyright PMC-Sierra, Inc. 2006. All rights reserved. For a complete list of PMC-Sierra's trademarks, visit www.pmc-sierra.com/legal/. Other product and company names mentioned herein may be the trademarks of their respective owners. For corporate information, send email to: info@pmc-sierra.com. All product documentation is available on our web site at: www.pmc-sierra.com.



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