

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









High Density 84/63 T1/J1/E1 Framer, Integrated VT/TU & DS3/E3 Mappers & M13 Mux

FEATURES

The PM8320 TEMUX 84E3 is a 155 Mbit/s multi-channel T1/E1/J1 Framer with integrated VT/TU, DS3/E3 Mappers and M13 Multiplexers.

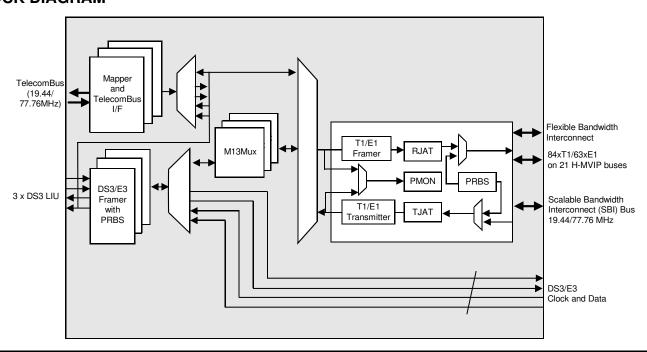
- This monolithic device integrates:
 - · 84 T1/J1 framers
 - · 63 E1 framers
 - 3 SPEs worth of SONET/SDH VT1.5/VT2/TU11/TU12 bit asynchronous mappers
 - Three full featured M13 multiplexers with DS3/F3 framers
 - Three SONET/SDH DS3/E3
 mappers* for terminating DS3
 multiplexed T1 streams, G.747
 multiplexed E1 streams,
 SONET/SDH mapped T1 streams
 or SONET/SDH mapped E1
 streams
- Each SPE/STS-1 can be independently programmed for various T1, E1, DS3 or E3 modes of operation.
- Supports wide range of T1, E1 and J1 framing formats.
- Supports M23 and C-bit parity DS3 formats.
- Stand-alone unchannelized E3 framer mode (ITU-T Rec. G.751 or G.832) for access to the entire E3 payload.

- · SONET/SDH Mappings:
 - Maps T1/J1/VC-11 into VT1.5/TU-11/TU-12/TUG-2/TUG-3
 - Maps E1/VC-12 into VT2/TU-12/TUG-2/TUG-3
 - Maps DS3 to/from AU-3/STS-1 (SONET) or TUG-3/AU-4 (SDH)*
 - Maps E3 to/from AU-3/STS-1 (SONET) or TUG-3/AU-4 (SDH)*
- Flexible line side and system side interface support:
 - Provides a 19.44 or 77.76 MHz SONET/SDH Add/Drop Telecom bus interface for seamless connection with PMC's SONET/SDH devices.
 - Supports a byte-serial Scaleable Bandwidth Interconnect (SBI™) bus interface at either 19.44 or 77.76MHz for system side interconnection to PMC's link layer devices.
 - Supports insertion and extraction of arbitrary rate (eg. fractional DS3) data streams to/from the SBI bus interface.
 - Support for transparent virtual tributaries when SBI interface is used with SONET/SDH mapper.

- Supports 8 Mbit/s H-MVIP on the system interface for all T1 or E1 links, a separate 8 Mbit/s H-MVIP system interface for all T1 or E1 CAS channels and a separate 8 Mbit/s H-MVIP system interface for all T1 or E1 CCS and V5.1/V5.2 channels.
- Provides jitter attenuation in the T1/E1 tributary receive and transmit directions.
- Provides three independent T1 or E1 recovered clocks for system timing and redundancy.
- Provides per link diagnostic and line loopbacks.
- Provides PRBS generators and detectors at DS3 and E3 rates and on each tributary for error testing at T1, E1 and NxDS0 rates as recommended in ITU-T 0.151, 0.152.
- Feature-rich functional software drivers available with device.
- Provides a generic 8-bit microprocessor bus interface for configuration, control and status monitoring.
- Provides a standard 5 signal P1149.1 JTAG test port for boundary scan board test purposes.

*Bold text indicates differences between PM8320 TEMUX 84E3 and PM8316 TEMUX 84.

BLOCK DIAGRAM



High Density 84/63 T1/J1/E1 Framer, Integrated VT/TU & DS3/E3 Mappers & M13 Mux

VOLTAGE

- Low power 1.8 V/3.3 V CMOS technology. All pins are 5 V tolerant.
- Low power (~1.1W).

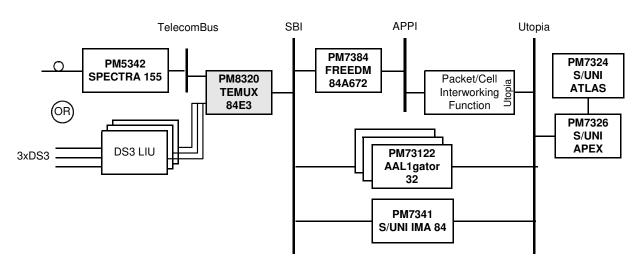
PACKAGE

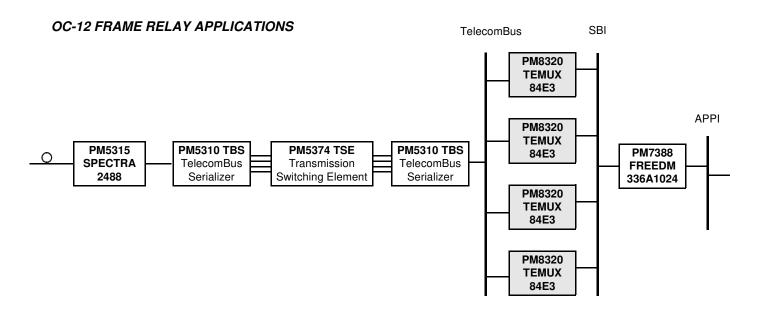
- 324-pin fine pitch PBGA package (23 mm x 23 mm).
- Supports industrial temperature range (-40 °C to 85 °C) operation.

APPLICATIONS

- High density T1/E1 interfaces for multiplexers, multi-service switches, routers and digital modems.
- Channelized and Unchannelized DS3
 Frame Relay Interfaces.
- · Optical Access Equipment.
- SONET/SDH Add Drop and Terminal Multiplexers.
- M13 Multiplexer/Demultiplexer Equipment.
- Digital Access Cross-Connect Systems.

TYPICAL APPLICATIONS ANY-SERVICE-ANY-PORT APPLICATION





Head Office: PMC-Sierra, Inc. 8555 Baxter Place Burnaby, B.C. V5A 4V7 Canada

Tel: 1.604.415.6000 Fax: 1.604.415.6200 To order documentation, send email to: document@pmc-sierra.com or contact the head office, Attn: Document Coordinator All product documentation is available on our web site at: http://www.pmc-sierra.com
For corporate information, send email to: info@pmc-sierra.com

PMC-2021488 (r3) © Copyright PMC-Sierra, Inc. 2003. All rights reserved. May 2003.

For a complete list of PMC-Sierra's trademarks and registered trademarks, visit: http://www.pmc-sierra.com/legal/