

Octal E1 Short Haul Line Interface Unit

CH5008_PB_Rev1.0, March,2005

OVERVIEW

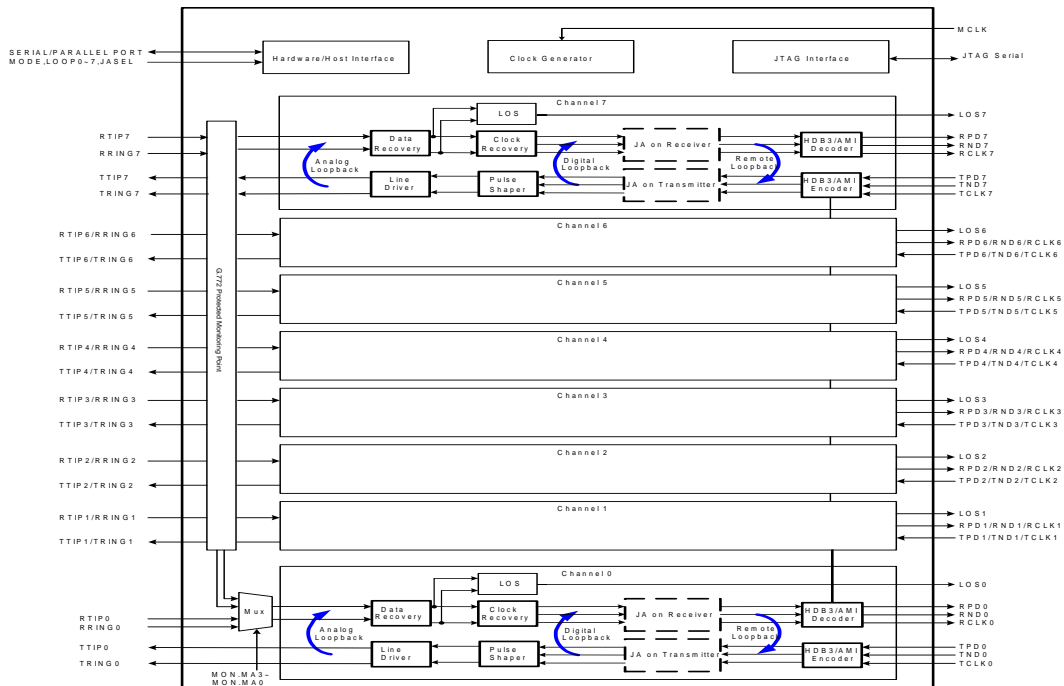
The CH5008 is an 8 Channel E1 LIU designed by Chiphomer Technology Limited. It integrates 8 independent receivers and transmitters on a single chip. Together with CP5018, the CH5008 can provide interface function between E1 line and PCM Highway.



FEATURES

- Supports 75ohm E1 coaxial and 120ohm E1 twisted pair applications
- Crystal-less jitter attenuator
 - Constant throughput delay
 - Complies with ITU G.736, G.742, G.823 and ETSI CTR12/13 specification
 - Optimized for SDH applications, complies with ITU G.783 mapping jitter specification
- LOS detector complies with ITU G.775 and ETSI ETS 300 233
- Provides non-intrusive Protected Monitoring Points (PMP) per ITU G.772
- Transmit return loss exceeds ETSI ETS 300166
- AMI or HDB3 encoder/decoder
- Analog, digital and remote Loopback for testing purpose
- Hitless Protection Switching (HPS) for 1 to 1 protection without relays
- Selectable hardware and parallel/serial host interface
- IEEE 1149.1 JTAG boundary scan
- 3.3V supply with 5V tolerant I/O

LQFP144
-40 ~ 85°C



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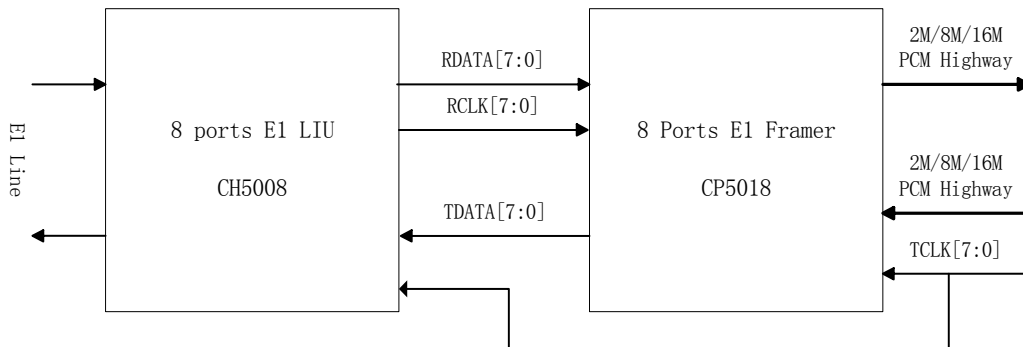
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- Ultra low power consumption, 120mW per channel (typ.)
- Operating industrial temperature range: -40°C ~ 85°C
- LQFP144 package

APPLICATIONS

- SDH tributary interfaces
- SONET/SDH multiplexers
- Digital access cross connection
- Microwave transmission systems
- PBX interfaces

TYPICAL APPLICATION



RELATED PRODUCTS

- CP5008: 8ch E1 LIU Enhancement
- CP5009: 8ch E1/T1/J1 LIU
- CP5018: 8ch E1 Framer