

PRIMARY RATE TRANSMISSION (T1, E1, J1)

PRODUCT OVERVIEW

The MT9076 is well suited for applications requiring a small form factor, low-cost solution for terminating T1/E1/J1 trunks. This single-port device integrates a long-haul LIU, an advanced framer, a high-performance PLL, and three HDLCs.

MT9076—Highly Integrated T1/E1/J1 Framer

- Combined T1/E1/J1 framer and LIU, with PLL and 3 HDLCs
- In T1/J1 mode the LIU can recover attenuated signals up to 36 dB (at 772 KHz)
- In E1 mode the LIU can recover attenuated signals up to 40 dB (at 1.024 MHz)
- Low-jitter digital PLL (intrinsic jitter < 0.02UI)
- HDLCs can be assigned to any timeslot
- Comprehensive alarm detection, performance monitoring and error insertion functions
- 2.048 Mbps or 8.192 Mbps ST-BUS streams
- Support for Inverse Mux for ATM (IMA)
- Support for V5.1 and V5.2 Access Networks
- 3.3 V operation with 5 V tolerant inputs
- Intel/Motorola non-multiplexed 8-bit microprocessor port
- JTAG boundary scan

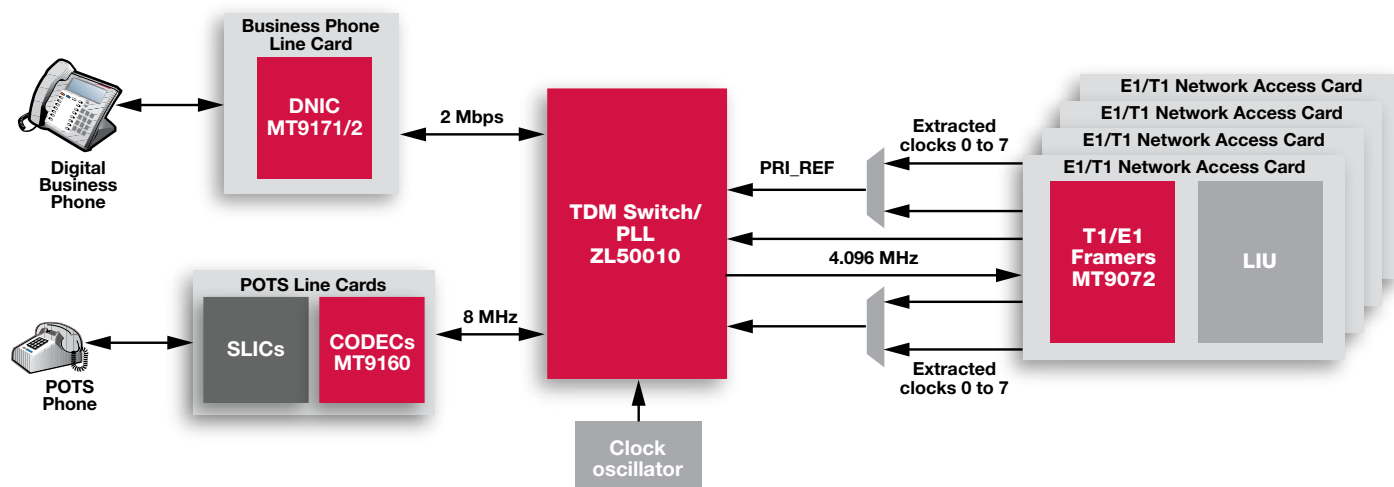
Related Products

Zarlink's primary rate interfaces offer superior performance and value to customers for meeting and exceeding the rigorous network certification requirements of the T1/E1/J1 market.

- MT8979 – CEPT PCM 30/CRC-4 Framer & Interface
- MT9072 – Octal T1/E1/J1 Framer
- MT8952 – HDLC Protocol Controller
- MT9074 – T1/E1/J1 Single Chip Transceiver with Wide Dynamic Range LIU
- MT9075B – E1 Single Chip Transceiver with LIU
- MT9076B – T1/E1/J1 3.3 V Single Chip Transceiver

Applications

- DSLAMS
- Digital Loop Carriers
- VoIP gateways
- Wireless basestations
- Multiservice access equipment
- E1/T1 add/drop multiplexers
- Central Office
- PBX equipment interfaces
- Digital cross-connects



Integrated Access Device

APPLICATION

Line Interfaces

Zarlink's digital subscriber line devices offer ISDN-like interfaces and proprietary full-duplex interfaces using bi-phase line code for cost-effective digital phone, intercom and PHS/DECT wireless basestation applications.

- MT9171/2—2 Wire Full-Duplex 2B+D (80/160 Kbps) Data Format Digital Subscriber Network Interface Circuit (MT9171 range up to 3 km/MT9172 up to 4 km)
- MT9173/4—2 Wire Full-Duplex 2B+D (80/160 Kbps) Data Format Digital Subscriber Network Interface Circuit (MT9173 range up to 3 km/MT9174 up to 4 km) with Loop Length Measurement Capability for wireless basestation applications