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## R8070A T1/CEPT PCM Transceiver

### INTRODUCTION

This data sheet addendum describes the enhanced framing procedure implemented in the R8070A version of the R8070 T-1/PCM-30 Transceiver device. This enhancement is only applicable to the 193E and 193F modes associated with the North American Extended Superframe (ESF) standard.

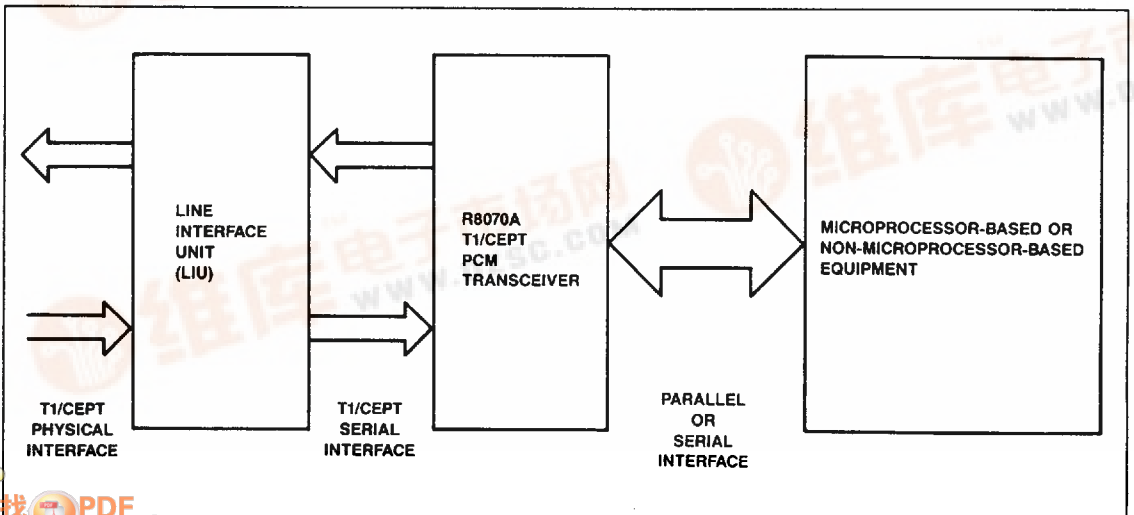
The improvements incorporated in the R8070A are transparent to the user, as well as interfacing hardware and software. All designs using the R8070 can use the R8070A to improve reliability.

### FUNCTIONAL DESCRIPTION

The R8070A is functionally and electrically identical to the R8070 except for the frame synchronization procedure when the device is configured in an Extended Superframe mode (193E or 193F). An extended CRC-6 check interval on the order of 8 - 12 multiframes has been added to the master state sequence. This extended period starts at the beginning of the "SYNC" state.

The extended CRC-6 check interval causes the R8070A to reframe if two consecutive CRC-6 block errors are detected.

These enhancements ensure extremely robust framing operation against false framing on data patterns that constantly mimic the ESF frame pattern.



R8070A Functional Interface