

# DS1 Test Patterns

## Appendix – AMI and B8ZS Line Codes

When the AMI line code is used on a DS1 interface, the individual channels are limited to 56 kb/s because one of the payload bits in each channel (timeslot) is set to a logic 1 to ensure clock recovery at the receiver. The B8ZS line code overcomes this limitation and allows Clear Channel Capability (CCC) in which all channels can be operated at the full 64 kb/s rate. B8ZS ensures that enough pulses are available for clock recovery at the receiver and is used whenever possible (older equipment may not support B8ZS).

B8ZS uses the same basic line coding rules as AMI except that B8ZS substitutes two bipolar violations (which are not allowed with AMI) and two normal pulses whenever the transmitted bit stream contains eight zeros in a row. Since the B8ZS line code only is invoked when the bit stream contains eight zeros in a row, the interface will appear to be optimized for AMI at all other times.

To ensure clock recovery on DS1 interfaces, ANSI Standard T1.102 requires an average pulse density of 12.5% (an average of one pulse in eight bit positions) with no more than 12 consecutive zeros (no pulses). The primary reason for this ones density requirement is clock recovery but other factors, such as automatic-line-build-out (ALBO), equalization, and power consumption, also require an adequate ones density.

## References:

- [1] ANSI T1.510, Network Performance Parameters for Dedicated Digital Services for Rates Up to and Including DS3 – Specifications, 1999.
- [2] Technical Report No. 25, Test Patterns for DS1 Circuits, AT&T, Nov. 1993.
- [3] T-BIRD<sup>®</sup> 224 User's Guide, Acterna (formerly Telecommunications Test Corp.).

## Document Information

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