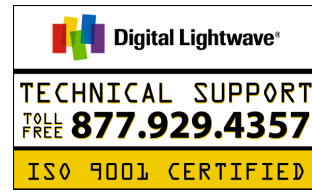


Application Note

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What Causes a B1 Error?

SONET uses the B1 byte of the Section Overhead to detect parity errors on the incoming SONET signal.

A B1 error occurs when a parity error is detected at the Section layer of the incoming SONET signal.

The parity error is known as a Bit Interleaved Parity, 8-bit (BIP-8). The B1 byte, which is part of the Section Overhead, contains 8 bits used to calculate even parity. Any error that occurs within those 8 bits is considered to be a B1 error.

A B1 error is also known as a Section Code Violation (CV-S). It performs error monitoring by running an even parity check on the previous SONET frame.