TECHNICAL BULLETIN

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Technical Bulletin #: TM-C1-0153A
Date Issued: December 30, 1996
Audience: Customers with 4XT1 Cards
Product(s) Affected: 4XT1 cards
Distribution: ___- Critical _X_- Standard ___- Special

Purpose of Bulletin

The NBC card detects a loss of incoming reference clock when a 4XT1 card is placed out of service, inserted into a subrack, or taken out of a subrack. when a span is placed out of service, the span processor is reset and the firmware is initialized. In the initialization process, the span's master clock is enabled and then disabled. This can be monitored by looking at U59 pin 1 with a scope and placing span one out of service. If the 4XT1 is in the first bucket, the NBC may not detect the error, but it can be seen with the scope.

Another condition occurs when a span is taken out of service. The LED display should indicate the span's out-of-service status by turning the Green LED on and the Red and Yellow LEDs off. This works if all the spans are active and a span is taken out of service. However, when a span is taken out of service before a new download, the card does not show the proper LED status.

Corrective Action

Summa Four recommends upgrading the firmware on 4XT1 cards to V1.12. This means changing four sets of two PROMs (a total of 8 per card). Use a PROM extractor tool to change firmware.

If you have experienced problems similar to those described above, please contact Summa Four Technical Support at 1-800-9SUMMA4.

Related Documents

None.