

IMPORTANT PRODUCT INFORMATION

READ THIS INFORMATION FIRST

Product: **Bus Transmitter Module**

IC697BEM713H

Hardware Identification: BETA2 44A730317-G01 , R8 or later versions

This version of the Expansion Bus Transmitter eliminates a problem that can result in a Loss of a Module error in an Expansion Rack, a missed interrupt from an Expansion Rack, or incomplete execution of a VME function block.

No new features or functionality are added with this hardware release.

Update Strategy: Replace or repair a IC697BEM713 (BTM) in systems that experience any of the symptoms discussed in “Problems Resolved by this Upgrade.”

Problems Resolved by this Upgrade

An extremely complex set of conditions involving the CPU, Expansion Bus Transmitter and Receiver (BTM and BRM) can result in a Loss of Module in any expansion rack, a missed interrupt from any source in expansion racks, or incomplete execution of a VME function block. These failures can happen under the following conditions:

- The system contains two or more expansion racks with interrupt sources in two or more expansion racks.
- When connecting a programmer via the WSI board and the programmer port on the BTM to a system that contains one expansion rack with interrupt sources.

Occurrence of the failures depends on the CPU model, the version of the BTM, the number of expansion racks, the expansion rack's number (ID), and the timing between interrupts from expansion racks.

This problem has caused the follow faults: “PLC CPU software fault” with error code 113 (missed GBC interrupt) and “LOSS OF IOC” with fault extra data starting 00 00 01 00 (then all 00)

Note that the timing of normal once-per-sweep interrupt from GBCs does not interfere with VME function block execution.

Restrictions and Open Problems

This version of the BTM does not eliminate the possibility of the error occurring on the initial connection to a programmer when using a WSI board in a PC cabled to the programmer port of the BTM. The probability is extremely low, calculated to be no more than 1 connection in 5 million. This applies only when connecting, not while connected because interrupts are used only to establish the connection. Connecting a programmer by any other method such as the serial ports on the CPU or through an Ethernet link cannot cause this problem.

Documentation

Read this document before installing or attempting to use the BTM with your PLC system. For more information, refer to the *Programmable Controller Installation User's Manual*.