Title: **Tiger Wide Band RGB (LPD 17) Configuration Information**

Product: **Tiger Video Routing Switcher (Wide Band)**
RGB Special for Raytheon (Navy LPD 17)

Date: **June 29, 2000**

ECO No.: **3690**

Issue:

To meet the unique needs of the U.S. Navy's San Antonio (LPD 17) class Amphibious Transport Dock ships, standard Tiger wide band routing switchers have been outfitted with custom firmware for Raytheon, the combat systems contractor. This Technical Bulletin provides the information required to properly configure these routing switchers.

Solution:

System Overview

The LPD 17 combat system requires support for one video level comprised of three components (e.g., Red, Green, Blue) in a single routing switcher. Each logical output must be capable of being switched to either one of the 48 logical inputs, or one additional logical input unique to each destination, as shown in Figure 1. This is accomplished by using Output Combiner Boards (with Expansion) in conjunction with modified firmware that makes each component appear to the system controller as a 49x48 matrix.

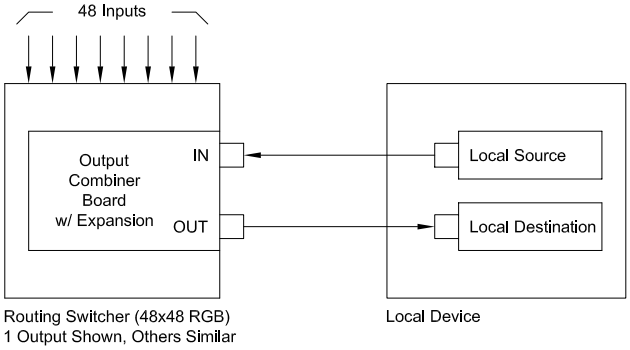

Figure 1. LPD 17 System Configuration

Control System Software Configuration

Input Offset

The firmware is configured to require the first component (e.g., Red) to use inputs 1 through 48, the second component (e.g., Green) to use inputs 49 through 96, and the third component (e.g., Blue) to use inputs 97 through 144. For this reason, the input offset for all components should be set to 0 (zero).

Output Offset

Component output offset should be configured in the normal manner. Since matrix breakup has already been determined by the firmware, the following component output offsets must be used: first component (e.g., Red) = 0, second component (e.g., Green) = 48, third component (e.g., Blue) = 96.