

**From:** Miska, Mark [mailto:Mark.Miska@adc.com]  
**Sent:** Wednesday, June 25, 2003 10:57 AM  
**To:** 'jmurphy@tuvam.com'  
**Cc:** gjakubowski@tuvam.com  
**Subject:** RE: IC Submittal

Hi Jolene/Greg,

Following is an outline of the changes made.

Thanks,  
Mark

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Outline of changes to the Digivance LRCS 800 MHz System:

1. Several minor layout changes to improve manufacturability and improve performance margins (but held to original specifications).
2. Removed some unused parts from the layout.
3. Replaced some parts that were obsolete / discontinued by manufacturer.
4. Changed some passive components to improve RF matching internally.
5. Changed amplifiers (LNA's) at front end of reverse path(s) to improve noise figure.
6. Added an additional RS-232 port that customer may use to transport data of their choosing across the fiber link.

No changes were made to any frequencies including clocks, references, IF and baseband frequencies. Also, no changes made to power supply, cabling, or shielding.