

Government and Public Safety 1301 E. Algonquin Road Schaumburg, IL. 60196 FSB NUMBER: FSB10432
APC: 509
DATE: Jun-10
EXPIRES: 30-Jun-11

BULLETIN TYPE: Informational Only

FIELD SERVICE BULLETIN

SUBJECT: ASTRO Simulcast timing difference between Quantar stations equipped with EPIC V and EPIC II control boards.

MODEL / SYSTEM AFFECTED:

All ASTRO Simulcast sites using Quantar EPIC V stations mixed with Quantar EPIC II stations.

SYMPTOM:

At ASTRO Simulcast sites; EPIC V signal launch is 8.2µs late comparing to EPIC II.

CAUSE:

The EPIC V control board introduces 8.2µs delay in the ASTRO Simulcast path compared to the EPIC II control board, which may lead to sub-optimal audio quality in the overlap areas. To ensure maximum audio quality, transmission from each site must be synchronized and delay differences should be avoided.

RESOLUTION:

If the ASTRO Simulcast Test Pattern alignment was correctly performed before and 8.2µs delay was already added to the EPIC II boards, no action needs to be taken. If this alignment has not yet been completed or a EPIC II/EPIC V board has been added as a replacement then the 8.2µs delay must be added to the Simulcast Launch Time Offset of any station that has an EPIC II board in it.

Note: See Appendix A for EPIC Identification chart

SEVERITY RECOMMENDATION:

Medium - Perform at next scheduled maintenance

PARTS REQUIRED (HARDWARE/SOFTWARE):

NA

LABOR ALLOWANCE

This is an informational bulletin. No labor warranty is implied, intended or authorized.

Attachments:
⊠ Yes □No
Identification: Appendix A



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Appendix A - EPIC Identification chart Quantar Station or Receiver

Quantal Station of Neociver										
	Conventional/6809	<u>IntelliRepeater</u>	ASTRO 25 Trunking 6.x/7.x							
EPIC I										
Board	TTN4094	TRN7900	N/A							
FRU	TLN3397	TLN3398	N/A							
EPIC II										
Board	(M)CLN6961	(M)CLN6960	N/A							
FRU	CLN1293	CLN1294	N/A							
EPIC III										
Board	CLN1614	N/A	N/A							
FRU	CLN1621	N/A	N/A							
EPIC V										
Board	MCLN8426	MCLN8447	N/A							
FRU	CLN8480	CLN8479	N/A							
EPIC IV										
Board	N/A	N/A	CLN7692							
FRU	N/A	N/A	DLN1229							

ASTRO-TAC Receiver

Conventional/6809	ASTRO 25 Trunking 6.x/7.x
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EPIC I

N/A TTN4094 Board **FRU** TLN3397 N/A

EPIC II

CLN6873 **CLN6873** Board **FRU** CLN1273 CLN1273

EPIC V

Board MCLN8426 MCLN8426 FRU CLN8480 CLN8480

Other EPIC-based products

		Securenet Quantar	Limited Quantar	PDR 3500	DBS	ATAC 3000 Comparator	ATAC 9600 Comparator
EPIC II							
	Board FRU	(M)CLN6961 N/A	(M)CLN7462 CLN1609	(M)CLN6961 PLN1682	(M)CLN6686 CLN1177	(M)CLN7361 CLN1494	CCN4009 CCN1009
EPIC V							
	Board FRU	MCLN8426 TBD	N/A N/A	MCLN8426 PLN1682	N/A N/A	N/A N/A	N/A N/A

The information contained in this bulletin is intended for use by trained, professional technicians who have the proper tools, equipment, and training to perform the service described above. If applicable, enter this information or note this bulletin number and subject material in the appropriate equipment instruction manuals and make necessary schematic diagram changes. Labor and/or parts warranty reference is limited to products sold and in use in the United States. For products sold and in use Internationally, this bulletin is for informational purposes only. Radios that are Agency Approved must follow designated agency guidelines. MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other trademarks, product, or service names are the property of their respective owners.