

# PRODUCT CHANGE NOTICE

## Symmetricom/(Datum\*) bc635/637PCI Time & Frequency Processor Redesign

### 1. Supplier Information

Symmetricom  
3750 Westwind Blvd.  
Santa Rosa, CA 95403  
1-888-367-7966 (1-888-FOR-SYMM) toll-free in the  
USA, Option 1, Option 3  
1-408-428-7907 Worldwide, Option 1, Option 3  
TechSupport.ttm@symmetricom.com

### 2. Product Change Notice #

0408-01-TTM

### 3. Issue Date

August 20, 2004

### 4. Change Classification

N/A

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### 5. Product Identity/Model

bc635PCI TFP  
bc637PCI GPS TFP  
bc635PCI TFP w/OVEN option<sup>(1)</sup>  
bc637PCI TFP w/OVEN option<sup>(1)</sup>

### 6. Product Code/Assembly

bc635PCI-U  
bc637PCI-U  
bc635PCI-U-OCXO  
bc637PCI-U-OCXO

### 7. Old Product Code

BC12083-1000  
BC12083-2000  
BC12083-1000/BC12083-3000<sup>(1)</sup>  
BC12083-2000/BC12083-3000<sup>(1)</sup>

*Note (1) Factory Installed Option*

### 8. New CLEI Code

N/A

### 9. Old CLEI Code

N/A

### 10. Drawing #

N/A

### 11. Associated Products or Changes Affected

N/A

### 12. Classification Substantiation

N/A

### 13. Reason for Change

The bc635/637PCI (BC12083-1000/2000) board has been upgraded to support universal signaling (3.3-volt and 5.0-volt). The replacement models are the bc635PCI-U and bc637PCI-U. This upgraded hardware is a surface mount board, and is form, fit and function backward compatible. The bc635/637PCI-U Time and Frequency Processors (TFP) support newer computers that do not have 5-volt I/O PCI slots, only the 3.3 volt slots. There are no changes to the application-programming interface, thereby being transparent to any existing software.

This upgrade provides 3.3-volt universal signaling on the PCI bus and provides the ability to support both 3.3-volt and 5-volt buses. Board design changes are minimized, adding only a PLX 6152 PCI-to-PCI bridge chip and a 5-volt to 3.3-volt regulator. An obsolete memory device was also replaced.

The new bc635/7PCI-U PCI edge connector has the 3.3-volt keyway added; and is otherwise form, fit, and function the same as the existing models.

### 14. Description of Change

Hardware Changes:

1. Updated board layout; re-sequenced most reference designators
2. Added PLX 6152 PCI-to-PCI bridge chip
3. Added a 5-volt to 3.3-volt regulator, PN LT1086CM
4. Replaced an obsolete AM28F010 memory device with AM29F010B

Firmware Changes:

None

**15. Effect of Change**

New ability added to support both 3.3-volt and 5-volt PCI buses.

**16. Material Affected**

N/A

**17. Documentation Affected**

N/A

**18. Supplier Implementation Date**

August 20, 2004

**19. Modification Expiration Date**

N/A

**20. Modification Location**

New purchases.

**21. Modification Cost**

New purchases.

**22. Location and Quantity of Equipment**

N/A

**23. Attachments**

N/A

**24. Comments**

\*On October 4, 2002 Datum merged with Symmetricom, Inc. Complete details and information can be found at [www.symmetricom.com](http://www.symmetricom.com).