

**ABRACON CORPORATION  
ENGINEERING/PROCESS CHANGE NOTIFICATION FORM**

**ABRACON ENGINEERING ORIGINATOR:**

IMPLEMENTATION DATE: 07/28/2014

Ying Huang – Applications Engineering Manager

SCD/DRAWING AFFECTED:  
AB08xx REAL-TIME CLOCK FAMILY

NOTIFICATION DATE:  
08/06/2014

REV: A

NEW REV: B

REASON FOR CHANGE:  
**Strategic Partner/Manufacturer Ambiq Micro  
Consolidation of (8) p/n's in the AB08xx Series to  
(2) p/n's which encompass all  
specifications/features of the Real Time Clock  
products**

EFFECTIVITY DATE: 07/28/2014

ECO# 2873

**DETAILS OF SPECIFICATION CHANGE:**

**APPLICATION INFORMATION**

**Discontinued Part Numbers:**

AB0801	AB0811
AB0801-T3	AB0811-T3
AB0803	AB0813
AB0803-T3	AB0813-T3
AB0804	AB0814
AB0804-T3	AB0814-T3

- See attached Appendix A – AB08xx, AB18xx Part Number Consolidation Cross Reference and Migration Details
- See the AB08X5 Series Datasheet, Rev B

Safety	Non Safety	Application:
<b>(Check one)</b>		

DISPOSITION OF CURRENT STOCK

Scrap

Transfer to: \_\_\_\_\_

Return to vendor

**ABRACON INTERNAL APPROVAL:**

APPROVAL (PRES) Chris Polley DATE 07/28/2014

SALES MANAGER Kelly Jensen DATE 07/28/2014

ENGINEERING DIRECTOR Syed Raza DATE 07/28/2014

APPLICATIONS ENGINEERING MGR Ying Huang DATE 07/28/2014

PURCHASING MANAGER: Chan Bang DATE 07/28/2014

QUALITY ASSURANCE MANAGER: Jeanette Evinger DATE 07/28/2014

**CUSTOMER NOTIFICATION**

ENGINEERING: NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

BUYER/PURCHASING: NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

## APPENDIX A

This Appendix provides the cross reference listing for the discontinued RTC Part Numbers to the corresponding superset device and describes the hardware and software changes required to migrate an AB08XX or AB18XX design to the corresponding ABX8X5 superset device.

### Migration Details

Table 1 below lists the ABX8XX device and its corresponding ABX8X5 device for replacement as well as any hardware and software changes required for migrating to the new part.

**Table 1 – Migration Table**

Device	Replace with	Hardware Changes	Software Changes
AB0801	AB0805	The EXTI and WDI input pins are available on the AB0805 and AB0815. If not used, these input pins must be connected to either GND or VCC.	None. However, the Part Number Lower Register at address 0x29 will read 0x5. In addition, the customer has the option of using the additional features offered by the superset part. Please see the AB08X5 and AB18X5 product datasheets for a complete list of features.
AB0811	AB0815		
AB0803	AB0805		
AB0813	AB0815		
AB0804	AB0805	None. Drop in replacement	
AB0814	AB0815		
AB1801	AB1805	The EXTI, WDI, and nEXTR input pins are available on the AB1805 and AB1815. If not used, these input pins must be connected to either GND or VCC.	
AB1811	AB1815		
AB1803	AB1805		
AB1813	AB1815		
AB1804	AB1805	None. Drop in replacement	
AB1814	AB1815		