

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

ABRACON ENGINEERING ORIGINATOR:

IMPLEMENTATION DATE: 07/28/2014

Ying Huang – Applications Engineering Manager

SCD/DRAWING AFFECTED:
AB18xx REAL-TIME CLOCK WITH POWER
MANAGEMENT FAMILY

NOTIFICATION DATE:
08/06/2014

REV: A

REASON FOR CHANGE:
**Strategic Partner/Manufacturer Ambiq Micro
Consolidation of (8) p/n's in the AB18xx Series to
(2) p/n's which encompass all
specifications/features of the Real Time Clock
products**

NEW REV: B

EFFECTIVITY DATE: 07/28/2014

ECO# 2874

DETAILS OF SPECIFICATION CHANGE:

APPLICATION INFORMATION

Discontinued Part Numbers:

AB1801	AB1811
AB1801-T3	AB1811-T3
AB1803	AB1813
AB1803-T3	AB1813-T3
AB1804	AB1814
AB1804-T3	AB1814-T3

- See the attached Appendix A - AB08xx, AB18xx Part Number Consolidation Cross Reference and Migration Details
- See the **AB18x5 Series Datasheet, Rev B**

Safety	Non Safety	Application:
(Check one)		

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		