

Advantech AE Technical Share Document

Date	2019/2/19	SR#	1-3678707293
Category	■FAQ □ SOP	Related OS	N/A
Abstract	RTC internal battery introduction		
Keyword	RTC, Internal Battery		
Related Product	ADAM-6000-D, ADAM-6200-B		

■ **Problem Description:**

The customer has some questions on ADAM's internal Battery.

■ **How often can we be expected to change the CMOS battery?**

Generally, battery life is calculated based on Milliampere (mA) and the capacity of the battery in Milliampere Hours (mAh). It could be calculated by the following equation:

$$\text{Battery Life} = \text{Battery Capacity (mAh)} / \text{Load Current in (mA)} * 0.70$$

0.7 is the external factor parameter. The battery used in ADAM series is BR2032 (3V/200mAh). However, it is still depending on the customer's using condition. In normal condition, the battery could last about 3 years.

■ **Is it the rechargeable type (Can the 6000/6200, with RTC, charge its own battery from input power?)**

No, the battery is non-chargeable.

■ **What will the effect be if this battery is discharged or disconnected?**

If this battery is discharged, the module could function normally with only 2 effects.

1. The time information will not be saved when the power is off. However, the RTC chip could function normally when the power is on.
2. The auto-bypass function will not work.