

Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A
Abstract	What's the rule for installing ADAM module properly?		
Keyword	Power, AI signal wire, noise, installation		
Related Product	ADAM-4000, ADAM-4100, ADAM-6000, ADAM-6200,		

■ **Problem Description:**

Customer reported that ADAM-6052 seems to keep “Freezing” and cannot work. He sent us the picture of his ADAM module and asked the proper way to install ADAM module. This document explains how to install ADAM module properly to make module working normally.

■ **Answer:**

Below is the real picture of ADAM module that working at customer side. ADAM module is not placed properly, and is easily to shift when there is any external force hit on the module. Moreover, the cables are connected in a messy way. It is not easy to see whether there are power line or signal control line that will affect ADAM module.



Figure 1 Improper way to install and use ADAM module at the field

There is no such a standard to specify how should a module is installed, but the installation should follow the below rules.

1. ADAM module is placed properly and won't shift easily.
2. The AI signal wires are neatly placed in the cable tray, and not tied together with other "noise" signal such as power line or signal control line. It is really common to see customer tied all wires together in a control cabinet for neatness purpose but forgot to consider that the noise from the control signal of other devices will coupling to AI signal wire of ADAM.
3. Avoid big equipment like motor or FAN that will generate vibration place around ADAM module, which can reduce the noise that may affect on ADAM module.

Here is a good example of installing ADAM module in a cabinet.



Figure 2 A good way to install and use ADAM module in a control cabinet