

Advantech AE Technical Share Document

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Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	N/A
Abstract	ADAM-60XX_What's the difference between ADAM-60XX BE and CE version		
Keyword	ADAM-60XX, BE, CE, Change notice, Comparison table		
Related Product	ADAM-60XX		

■ **Problem Description:**

This documentation explains the difference between ADAM-60XX BE and CE version.

■ **Brief Solution - Step by Step:**

Reason of Product Change

Key component phase-out: The part, Samsung ARM 7, is no longer supplied by our vendor since 2012 and the production of ADAM-60XX-BE is thus influenced.

New Function/Feature Highlight

Many function/features enhancement are implemented to the revision of ADAM-60XX-CE, including DHCP, Group Configuration, User-defined Modbus Address, Rest to Default, and HTML 5-based Web Server.

User-defined Modbus Address

In order to provide a more flexible and scalable way in deploying ADAM modules, in the revision of ADAM-6000 module the Modbus address setting can be configurable by users. There're two kinds of Modbus address section (0X and 4X). For both address sections, users can configure the Modbus address of specified I/O functions to fit their applications. For example, the below screenshot is Modbus address setting page of a DI/O module.

Information | Network | Stream | Administration | Firmware | Peer to Peer/Event | Access Control | Modbus Address

Coils Status (0X) :

Item	Length	Base
DI status	14	0001
DO status	02	0017
Counter switch	56	0033
Clear GCL counter	08	0089

Holding Registers (4X) :

Item	Length	Base
Counter frequency	28	0001
Pulse output low level width	04	0029
Pulse output high level width	04	0033
Set absolute pulse	04	0037
Set incremental pulse	04	0041
Module name	02	0211
DI status	01	0301
DO status	01	0303
GCL flag	01	0305
GCL counter	16	0311

Refresh Apply

Reset to Factory Default

Users can clear all the configuration and settings of the ADAM-6000 module to its factory default in the ADAM.Net Utility. It helps when an ADAM module is re-used for a new project after being configured in the past.

Information | Network | Stream | Administration | Firmware | Peer to Peer/Event | Access Control | Modbus Address

Password Setting

Old password:

New password:

Verify password:

Reset to Factory Defaults

System Restart

HTML 5 Web Server*

The revisions of ADAM-6000 integrates the latest Web language (HTML 5) and Web-based software style (REST) with basic authentication for users to remotely acquire I/O data in any Web service of smart device without routing from SCADA system, for example, user can use Web browser of smart phone/pad to remotely access I/O module via HTTP. The steps to do that are

- 1) Connect PC/smart phone/pad to the network where the ADAM-6000 is.
- 2) Open a web browser and key-in ADAM-6000's IP as direction

3) Log in and get access to the I/O on ADAM-6000 module (default user name: root, password: 00000000)

And the web server run on a smart phone is shown below:



Furthermore, the default web server can be exported in the ADAM.Net Utility and further modified by editing REST access instructions.

*Note: To be consistent with its previous version, the default web server on ADAM-60XX-CE is not HTML 5 based one. Users can download the latest web server (.html file) on its [product page](#) and import it to ADAM-60XX module.

Group Configuration

In certain application scenarios, it's necessary to set multiple modules with the same settings for doing the same tasks on different sites. Users have to set configurations of module one after another before on-site deployment. During maintenance, it also requires repetitive effort to carry out firmware updates for multiple modules. The revision of ADAM-6000 is equipped with Group Configuration function which allows users to configure multiple modules at the same time. The configuration file can be exported and download in the ADAM.Net utility and it includes settings of *Device Information, General Information, P2P & Streaming, GCL Setting and Modbus Address XML file*. The installation time for a system with many ADAM modules can be greatly. Also, the module firmware file and HTML web server file can deploy to multiple modules at the same time.

Comparison Table

Besides covering ADAM-60XX-BE’s functions, ADAM-60XX-CE is designed to provide more intelligence and features for users. The main function differences are listed in the following comparison table:

	ADAM-60XX-BE	ADAM-60XX-CE
DHCP*	Not supported	Supported
Peer-to-peer	Supported	Supported
GCL (Graphic Condition Logic)	Supported	Supported
User-defined Modbus Address*	Not supported	Supported
Reset to Factory Default*	Not supported	Supported
HTML 5 Web Server*	Not Supported	Supported
Group Configuration*	Not supported	Supported

* These functions can only be operated in the updated ADAM.Net Utility which will be explained in the *Operation Notice* session.

Operation Notice

In the hardware point of view, the operations of ADAM-60XX-BE and ADAM-60XX-CE are the same, as they share the same I/O connector with identical pin assignments.

In the software point of view, the firmware of ADAM-60XX-BE and ADAM-60XX-CE are different and they are not exchangeable as they run in different hardware structure. By checking the firmware versions in the ADAM.Net Utility, you can tell the module versions.

Model Name	Firmware Version
ADAM-60XX-BE	Lower than V5.00
ADAM-60XX-CE	V5.00 or higher

An updated ADAM.Net Utility is also provided to facilitate new functions ADAM-60XX-CE provides. To be able to use all the functions of ADAM-60XX-CE, please install ADAM.Net Utility with version higher than V2.05.05. If an old version ADAM.Net Utility is installed in the platform, please remove it first and then install the newer version to make sure a complete installation. The newer version Utility (V2.05.05 or higher) can support both ADAM-60XX-BE and ADAM-60XX-CE.

The latest version of firmware and ADAM.Net Utility for ADAM-60XX can always be downloaded in its [product page](#).