

Advantech AE Technical Share Document

Date	2016/03/09	SR#	1-2392808041
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-5510KW, What's the purpose of DIP SW		
Keyword	Controller, ADAM-5510 Series, DIP SW, COM port setting		
Related Product	ADAM-5510KW, ADAM-5510KW/TCP, ADAM-5510EKW/TP		

■ **Description:**

This document describes the function of DIP SW for ADAM-5500 controller series.

■ **Answer:**

Please refer to the *Figure 1* for the location of DIP switch on ADAM-5500 series.

Actually DIP switch can be used to determine device ID, COM port interface (RS-232/RS-485) and the COM port protocol setting.

In the following paragraph we'll describe these setting one by one clearly, but, first thing first, we would like to remind the user don't set ALL of the DIP SW to "off" position otherwise ADAM-5500 series will enter the **safe mode** which all of the boot project and program will not be executed after rebooting the power of controller.

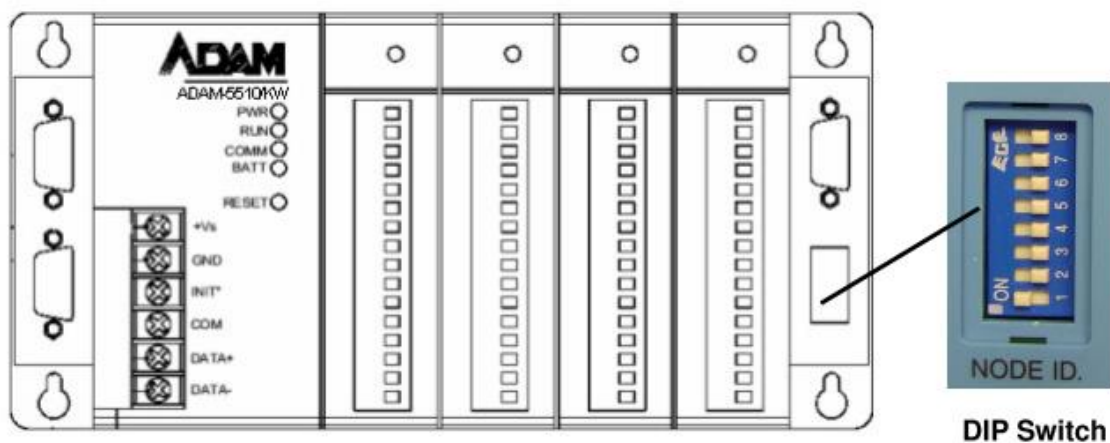


Figure 1

1. Device ID setting:

DIP switch 1 to 5 is used for the device ID (slave ID) setting while ADAM-5500 controller is set as the **Modbus RTU slave** or **Modbus/TCP server**.

Please refer to the *Table 1* for the DIP switch setting and the corresponding device. ID

DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	Device ID
On	Off	Off	Off	Off	1
Off	On	Off	Off	Off	2
On	On	Off	Off	Off	3
Off	Off	On	Off	Off	4
On	Off	On	Off	Off	5
Off	On	On	Off	Off	6
On	On	On	Off	Off	7
Off	Off	Off	On	Off	8
On	Off	Off	On	Off	9
Off	On	Off	On	Off	10
On	On	Off	On	Off	11
Off	Off	On	On	Off	12
On	Off	On	On	Off	13
Off	On	On	On	Off	14
On	On	On	On	Off	15
Off	Off	Off	Off	On	16
On	Off	Off	Off	On	17
Off	On	Off	Off	On	18
On	On	Off	Off	On	19
Off	Off	On	Off	On	20
On	Off	On	Off	On	21
Off	On	On	Off	On	22
On	On	On	Off	On	23
Off	Off	Off	On	On	24
On	Off	Off	On	On	25
Off	On	Off	On	On	26
On	On	Off	On	On	27
Off	Off	On	On	On	28
On	Off	On	On	On	29
Off	On	On	On	On	30
On	On	On	On	On	31

Table 1

2. COM port setting:

DIP switch 6 to 8 is designed for the interface setting (RS-232/RS-485), protocol and the baud rate of COM 1 and COM2.

Configuration mode: For Adam/Apax utility setting

Modbus mode: For Modbus/RTU communication

Multiprog protocol: For downloading the KW project, on-line KW debugs purpose

Please refer to the *Table 2* for DIP SW setting and the corresponding meaning.

SW6	COM Selection	SW7	SW8	Mode Selection / Baud Rate
ON	COM1/RS-232	ON	ON	Configuration Mode / 9600 bps
OFF	COM2/RS-485	ON	ON	Configuration Mode / 9600 bps
ON	COM1/RS-232	OFF	OFF	Modbus Protocol / 9600 bps
	COM2/RS-485			Multiprog Protocol / 19200 bps
OFF	COM2/RS-485	OFF	OFF	Modbus Mode / 9600 bps
	COM1/RS-232			Multiprog Protocol / 19200 bps
ON	COM1/RS-232	ON	OFF	Modbus Mode / 19200 bps
	COM2/RS-485			Multiprog Protocol / 19200 bps
OFF	COM2/RS-485	ON	OFF	Modbus Mode / 19200 bps
	COM1/RS-232			Multiprog Protocol / 19200 bps
ON	COM1/RS-232	OFF	ON	Modbus Mode / 38400 bps
	COM2/RS-485			Multiprog Protocol / 19200 bps
OFF	COM2/RS-485	OFF	ON	Modbus Mode / 38400 bps
	COM1/RS-232			Multiprog Protocol / 19200 bps

Table 2