

## Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-40XX and ADAM-41XX_The maximum connection distance and station number		
Keyword	ADAM-40XX, ADAM-41XX, RS-485, Connection distance, Connection number		
Related Product	ADAM-4024		

### ■ Problem Description:

This documentation explains the limitation of RS-485 transmission distance and station number. User may use repeater to overcome these restrictions.

### ■ Brief Solution - Step by Step:

#### [Description]

What's the maximum length of RS-485 bus?

How many ADAM can I connect to my controller in the RS-485 structure?

## [Answer]

Generally speaking, the maximum transmission distance in one RS-485 segment is 1200 meters and the maximum numbers of device are 31 nodes.

If the user wants to extend the transmission distance or number of nodes, they can use a repeater ([ADAM-4510](#)) to add an extra segment.

