

<b>Date</b>	2015/07/ 16	<b>SR#</b>	1-2120401054
<b>Category</b>	■FAQ □SOP	<b>Related OS</b>	N/A
<b>Abstract</b>	Which ADAM Module Support Remote IO Function via RS-232		
<b>Keyword</b>	ADAM, RS-232		
<b>Related Product</b>	ADAM-4520, ADAM-4520I, ADAM-4521		

■ **Problem Description:**

This document explains a common question regarding which ADAM-Module support remote IO function via RS-232 interface.

■ **Brief Solution - Step by Step:**

Basically, although RS-232 has been most widely interface use over the serial communication; however, due to fast change of modern application today, it suffer from some disadvantages and limitations, table below summarized a few.

For those reasons, Advantech mainly focus on developing fast and robust RS-422/RS-485 interface ADAM-Modules. Even though, Advantech still offering RS-232 to RS-422/RS-485 converter(such as ADAM-4520/4522) for extending customer existing RS-232 network

Criteria	RS-232	RS-485
Cabling	Single-Ended	Differential
Signaling	Un-Balanced	Balanced
Receiver Sensitivity	±3V	±200mV
Max. Data Rate	20 kbits/s	10 Mbits/s
Max. Transmission Distance	15m	1200m
Number of Devices	1 Transmitter 1 Receiver	32 Transmitter 32 Receiver
Transmission Mode	Full Duplex Pt-to-Pt	Half Duplex Multi-Drop