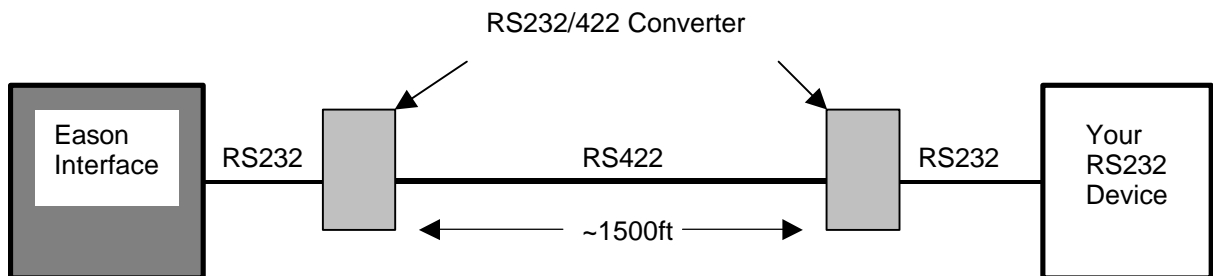


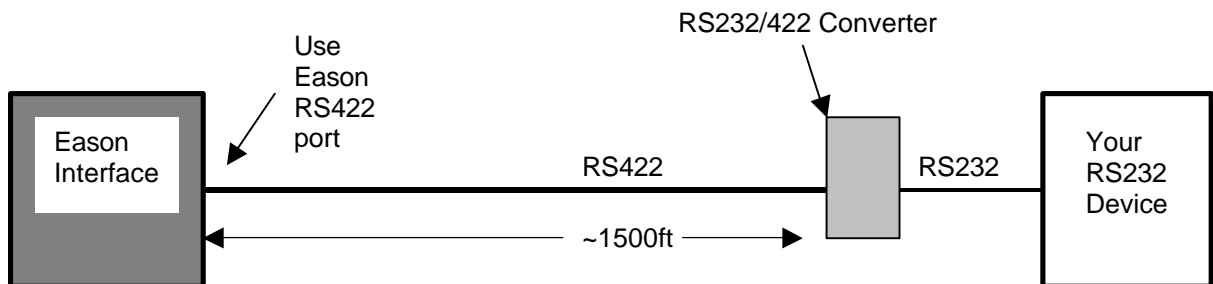
## Extending RS232 Communication Distances via RS422

The theoretical communication distance of RS232 is about 50ft. This can be even less in electrically noisy environments, and is not recommended for any type of communication in an industrial environment that must traverse any sort of distance, or around other electrical equipment.

To extend communication distances (as well as reliability) you can implement a RS422 communications network. This only requires one or two RS232-RS422 converters, depending on your setup. These converters are available from vendors such as B & B Electronics. ([www.bb-elec.com](http://www.bb-elec.com)) RS422 is capable of communicating over 1500ft reliably.



In addition, Eason products have one if not two built-in RS422 communication ports, so a converter at the Eason end may not be necessary to implement a connection. See below.



**Sample RS422 wiring:**

<b>Converter/Eason</b>		<b>Converter</b>
3 - GROUND	=====	GROUND
4 - RX -	=====	TX -
5 - RX +	=====	TX +
6 - TX -	=====	RX -
7 - TX +	=====	RX +
8 - SHIELD	=====	SHIELD

**Sample RS232 wiring:**

<b>Eason/Converter</b>		<b>Converter/Device</b>
SHIELD	=====	SHIELD
TRANSMIT	=====	RECEIVE
RECEIVE	=====	TRANSMIT
GROUND	=====	GROUND