

SB200

**Serial Converter
One-chip Solution**

Transceiver | **SB200**



One-chip RS232 to RS422/RS485
Converting Transceiver

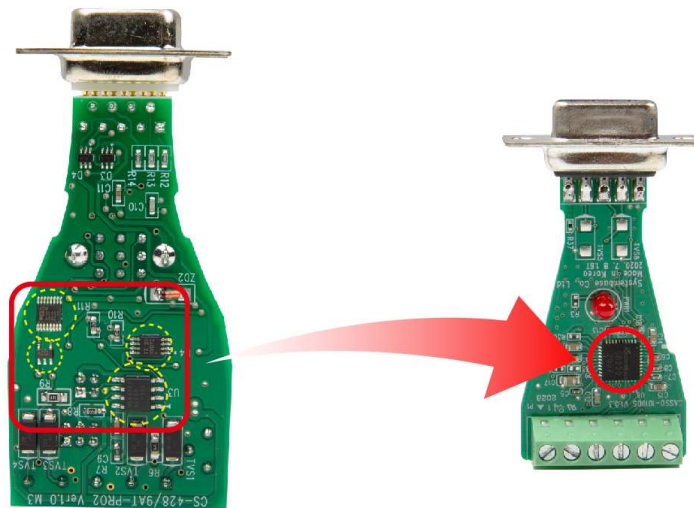
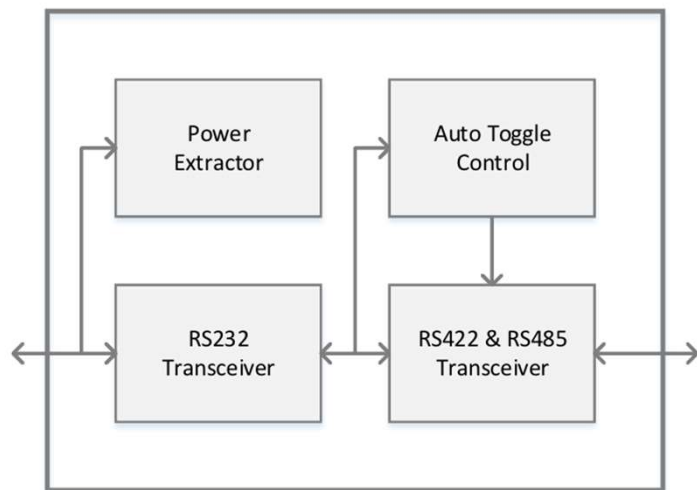
Features

- World best **one-chip solution** for a serial converter
- Applied **port-powered** function without external power source
- **Auto direction control** for RS422 and RS485 multi-drop network
- Maximum Baudrate **921.6Kbps**
- **Industrial-grade operation grade**, QFN-40 Package (6mm*6mm)

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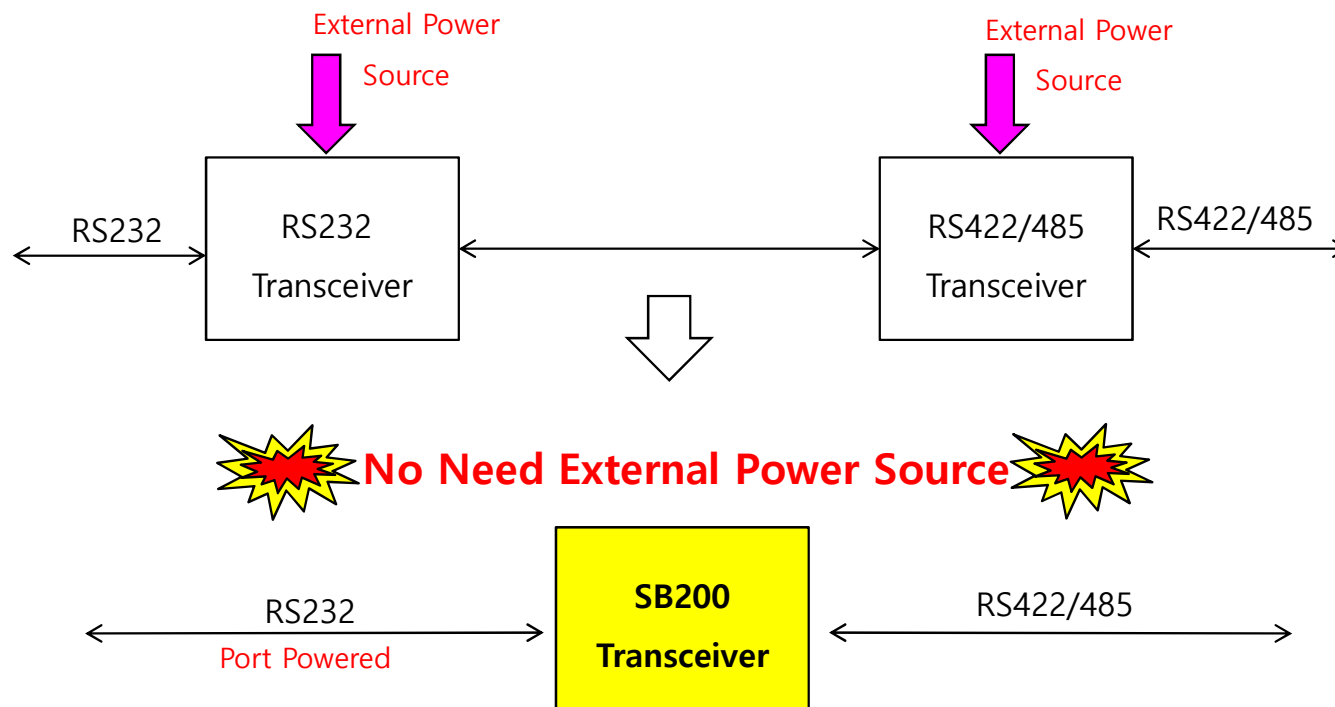
One-chip RS232 to RS422/RS485
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Port-powered Function



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Performance Table of SB200 vs Low-Cost Converter

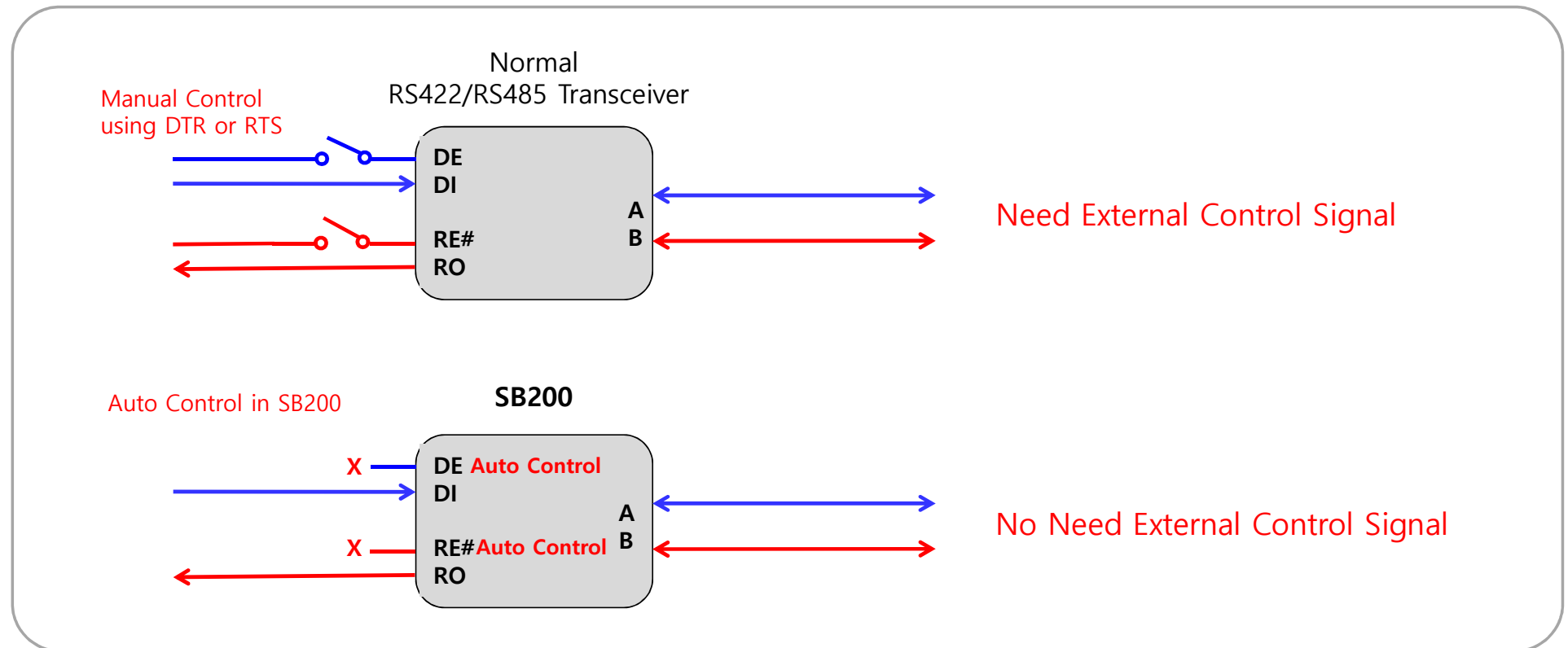
	Long Range (1.2km, with TERM.)			
	Low-Cost Converter		SB200	
	Port Power	External Power	Port Power	External Power
RS422	115.2kbps	115.2kbps	460.8kbps	460.8kbps
RS485 Echo	115.2kbps	115.2kbps	230.4kbps	460.8kbps
RS485 Non-Echo	115.2kbps	115.2kbps	230.4kbps	460.8kbps

*This report is the LAB test result of SystemBase.

* The table above is the result of laboratory experiments and may differ from field results.

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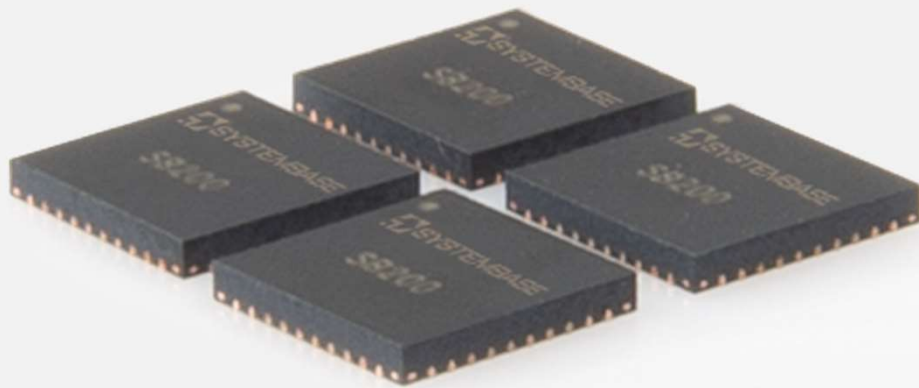
Auto direction Control



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Product comparison table

	SB200	CS-428/9AT-PRO2	Low Price Converter
Manufacturer	SystemBase	SystemBase	-
I/F	RS232 to RS422/485	RS232 to RS422/485	RS232 to RS422/485
Speed	Max. 1Mbps	Max. 1Mbps	Max. 115.2kbps
RS422/485 Mode	RS422 (RS485 4 Wire) RS485	RS422 (RS485 4 Wire) RS485	RS422 (RS485 4 Wire) RS485
RS422 Mode	1:1, Multi-Drop	1:1, Multi-Drop	1:1 (Multi-Drop x)
RS485 Mode	Non-Echo, Echo	Non-Echo, Echo	Non-Echo, (Echo x)
Maximum Baud Rate [RS485, 1.2km(UTP)]	Max 460.8kbps	Max 115.2kbps	Max 115.2kbps
Large output swing [RS232, 30m(UTP)]	Max 460.8kbps	Max 230.4kbps	Max 115.2kbps
Termination	Selectable	Selectable	Forced
LED Indicating Support	○	○	X
Industrial Operating Temp. (-40~85°C)	○	○	X



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info@sysbas.com **Sales**

tech@sysbas.com **Technical Support**