

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

RB12

Single-channel RS422 Buffer

The RB12 contains a differential RS422 receiver input with selectable termination, and two differential RS422 line driver outputs. Each output is capable of driving one RS422 input with 100 ohm termination or two RS422 inputs with input termination of 200 ohms each.

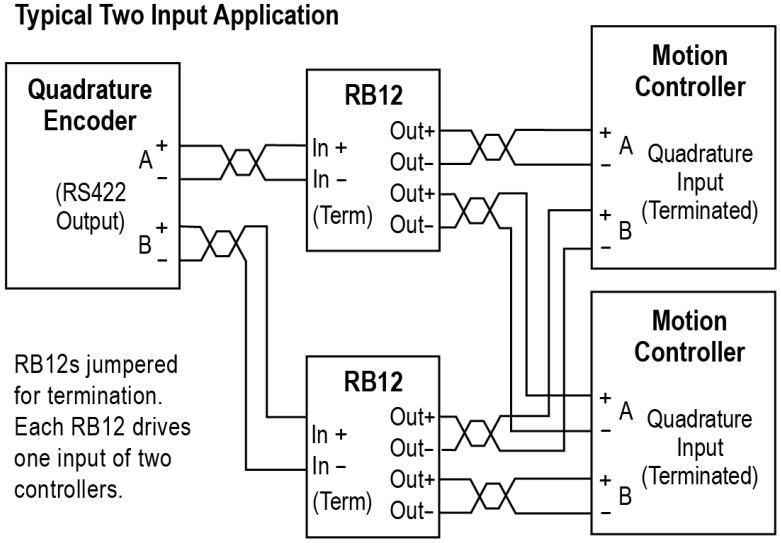
Use two RB12s to buffer the RS422 signals from a quadrature encoder (one RB12 for A and one for B) to allow a gearing encoder to be used with multiple motion controllers.

Simply snap off the side panel of the RB12's DIN rail mount enclosure to access the termination jumper.

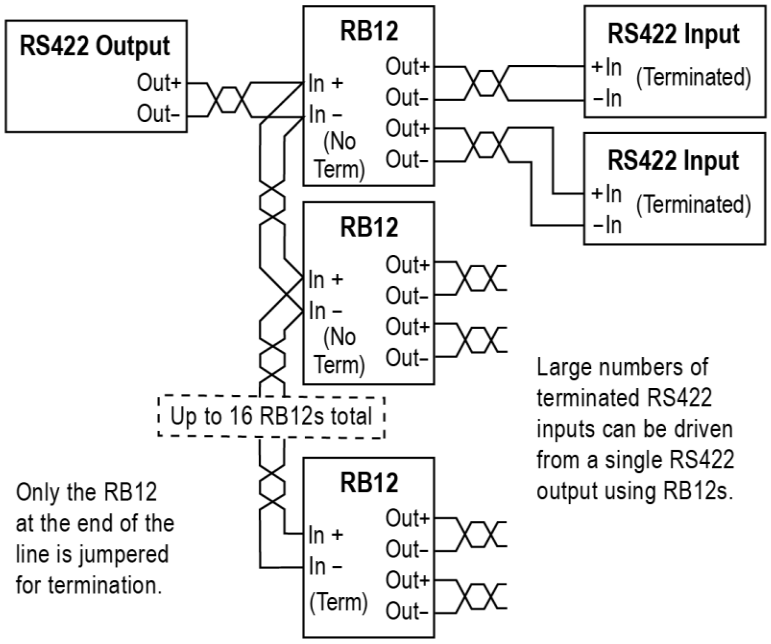
Features

- Connect multiple motion controllers to one encoder for gearing applications
- RS422 differential transceivers for high noise immunity
- Selectable termination on RS422 input—high impedance or 220 ohm
- Compact DIN-rail mount
- Single +5VDC ±5% power supply
- Low current draw—30mA typical (varies with termination impedance of RS422 load(s) on the RB12 outputs)

Typical Two Input Application



General RS422 Buffer Application



DELTA COMPUTER SYSTEMS, INC.

Specifications

Buffer	Number of Inputs	1
	Input Type	RS422 differential receiver (MAX490 or equivalent)
	Input Impedance (From Input + to Input -)	Selectable--High (>6 kohms) or Low (220 ohms ±7%)
	Input Differential Threshold Voltage	-0.2 to +0.2 Volts
	Number of Outputs	2
	Output Type	RS422 differential line driver (MAX490 or equivalent)
	Output Drive	Drives 100 ohm to 250 ohm RS422-type input(s)
	Speed	2.5 Mbps (see MAX490 datasheet for details)
Power Supply Requirements	Power Supply	Single +5VDC ±5%
	Current Requirements	30mA typical (varies with impedance driven by RB12—RB12 draws less than 3mA unloaded)
	Isolation	Not isolated—all commons (Input, Output, and Power Supply) are tied together
Mechanical	Dimensions	0.7 x 2.45 x 2.5 in (18 x 62 x 65mm) (W x H x D)
	Mounting	Mounts directly to DIN rail

RB12 Wiring

Terminal	Function
A	+ RS422 Output (1)
B	- RS422 Output (1)
C	+ RS422 Input
D	- RS422 Input
E	+ RS422 Output (2)
F	- RS422 Output (2)
G	Common
H	+ 5 VDC Power Supply

Ordering Information

Part Number: RB12

Company Profile

Delta Computer Systems, Inc. manufactures motion controllers, related accessories, and other products providing high-performance automation solutions to a wide range of industries.

Printed in USA 12/15/16
rb12

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP