



# RS-232 to RS-232 Optical Isolators

## Model 590 Series

*Why let ground loops disrupt your asynchronous RS-232 or RS-422/485 communications?*

**Data Rate Selection**

0-19.2 or 0-115.2 kbps

**Interface Isolation Options**

RS-232 or RS-422/485 interfaces

**Choice of Signal Isolation**

Various combinations for signal protection

**Self-Powered**

DC or AC power, depending on model

**Many Model Options**

Choose from various combinations of signal protection, interfaces, data rates and connectors

The Patton Model 590 Series of RS-232 to RS-232 optical isolators guards your asynchronous equipment from the hazards of ground looping. Plugging directly into your DTE hardware, the Model 590 Series provides 2500V RMS peak DCE/DTE isolation.

Both the Model 590A (19.2 kbps max) and Model 591A (115.2kbps max) isolate 4 lines on the RS-232 interface--two of which are selectable by internal jumpers.

The Model 592 (19.2 kbps max) and Model 594 (115.2kbps max) isolate 7 pre-wired lines on the RS-232 interface.

For more information, visit [www.patton.com](http://www.patton.com).



**Specifications**

**Transmission Format**

Asynchronous, full or half duplex

**Interface Standard**

EIA RS-232-E

**Connectors**

(2) DB-25 Female

**Data Rates**

Up to 19,200 bps (Model 590A);  
Up to 115,200 bps (Model 591A)

**Isolation**

2500VRMS

**Power Supply**

Interface Powered; Optional power supplied to pin 9 (either side) at +5V DC ±5% @ 10mA

**Compliance**

89/336/EEC, FCC Part 15, CLASS A

**Dimensions**

3.8"L x 2.1"W x 0.79"H  
(9.7 x 5.3 x 2.0 cm)

**Temperature Range**

0-50°C (32-122°F)

**Altitude**

Up to 10,100 feet

**Weight**

5.7 oz. (161.6g)

**Humidity**

5 to 95% non-condensing

**Selection Chart**

Patton Model	Interface	Connectors	Async Data Rates	Signals Isolated	Isolation (VRMS)	Power Supply
<b>590A</b>	RS-232	DB-25F	0-19.2 kbps	TD, RD, + one control signal in each direction	2500	Interface Powered (optional DC power to pin 9)
<b>591A</b>	RS-232	DB-25F	0-115.2 kbps	TD, RD, + one control signal in each direction	2500	Interface Powered (optional DC power to pin 9)
<b>592</b>	RS-232	DB-25F	0-19.2 kbps	TD, RD, RTS, CD, CTS, DSR, DTR	2500	External AC Adapter
<b>593/25F</b>	RS-422 /485	DB-25F	0-115.2 kbps	TD+, TD-, RD+, RD-	2500	AC Adapter (Regulated)
<b>593/45</b>	RS-422 /485	RJ-45	0-115.2 kbps	TD+, TD-, RD+, RD-	2500	AC Adapter (Regulated)
<b>593/TB</b>	RS-422 /485	Terminal Blocks	0-115.2 kbps	TD+, TD-, RD+, RD-	2500	AC Adapter (Regulated)
<b>594</b>	RS-232	DB-25F	0-115.2 kbps	TD, RD, RTS, CD, CTS, DSR, DTR	2500	External AC Adapter

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Patton Electronics—a leader in the production of network access and connectivity products—is building on its expertise in integrated network access, transmission, IP and Frame Relay technologies and leading in the development of right-priced products to simplify human and machine access to the global network.

The Patton brothers, Bobby and Burt, founded Patton Electronics in 1984, while students in college. Over the succeeding 20+ years, Patton has taken those simple beginnings and expanded into a multi-national manufacturing company that today employs more than 180 people and provides a product line in excess of 1000 items.

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