

# BRX Pluggable Option Modules (POM)

## BX-P-SER422-TERM

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The RS-422 POM can be connected to the Do-more! Designer programming software, Modbus RTU master devices, DirectLogic

PLCs via K-Sequence protocol, as well as devices that send or receive non-sequenced ASCII strings or characters.

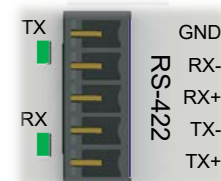


Removable Connector Included

### BX-P-SER422-TERM Specifications

|  |  |
|--|--|
| <b>Description</b>                         | Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection. |
| <b>Supported Protocols</b>                 | Do-more!™ Protocol (Default)<br>Modbus RTU (Master & Slave)<br>K-Sequence (Slave)<br>ASCII (In & Out)            |
| <b>Data Rates</b>                          | 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 Baud   |
| <b>Default Settings</b>                    | 115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1  |
| <b>Port Status LED</b>                     | Green LED is illuminated when active for TXD and RXD   |
| <b>Port Type</b>                           | Removable 5-pin terminal strip 3.5 mm pitch  |
| <b>Station Addresses</b>                   | 1–247  |
| <b>TX-/RX-</b>                             | RS-422 Transceiver low   |
| <b>TX+/RX+</b>                             | RS-422 Transceiver high  |
| <b>GND</b>                                 | Logic ground   |
| <b>Input Impedance</b>                     | 96kΩ   |
| <b>Maximum Load</b>                        | 50 transceivers, 19kΩ each, 120Ω termination   |
| <b>Output Short Circuit Protection</b>     | ±250mA, thermal shutdown protection  |
| <b>Minimum Differential Output Voltage</b> | 2.0 VDC with 54Ω load  |
| <b>Maximum Common Mode Voltage</b>         | -7.5 to 12.5 VDC   |
| <b>Fail Safe Inputs</b>                    | Logic high input state if inputs are unconnected   |
| <b>Electrostatic Discharge Protection</b>  | ±15kV human body, ±6kV contact discharge per IEC61000-4-2  |
| <b>Cable Requirements</b>                  | RS-422 use P/N L19853-XXX from automationdirect.com  |
| <b>Maximum Distance</b>                    | 1000 meters [3280 feet] recommended maximum  |
| <b>Replacement Connector</b>               | ADC Part # BX-RTB05S   |
| <b>Hot Swappable</b>                       | Yes  |
| <b>Software Version Required</b>           | Do-more! Designer version 2.7 or later   |

| Pinout | RS422 |
|--------|-------|
| 1      | GND   |
| 2      | RX-   |
| 3      | RX+   |
| 4      | TX-   |
| 5      | TX+   |



## BX-RTB05S

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Replacement removable connector.



### BX-RTB05S Connector Specifications

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Part Number</b>              | <a href="#">BX-RTB05S</a> |
| <b>Connector Type</b>           | Screw type                |
| <b>Wire Exit</b>                | 180-degree                |
| <b>Pitch</b>                    | 3.5 mm                    |
| <b>Screw Size</b>               | M2                        |
| <b>Recommended Screw Torque</b> | <1.77 lb·in [0.2 N·m]     |
| <b>Screwdriver Blade Width</b>  | 2.5 mm                    |
| <b>Wire Gauge (Single Wire)</b> | 28–16 AWG                 |
| <b>Wire Gauge (Two Wires)</b>   | 28–16 AWG                 |
| <b>Wire Strip Length</b>        | 0.24 in [6mm]             |
| <b>Equiv. Dinkle part #</b>     | EC350V-05P-BK             |