# USER MANUAL

## MODEL 305
### Micro Modem Splitter

**PATTON Electronics Co.**

## WARRANTY

**Patton Electronics** warrants all Model 305 components to be free from defects, and will—at our option—repair or replace the product should it fail within one year from the first date of shipment. This warranty is limited to defects in workmanship or materials, and does not cover customer damage, abuse or unauthorized modification. If this product fails or does not perform as warranted, your sole recourse shall be repair or replacement as described above. Under no condition shall **Patton Electronics** be liable for any damages incurred by the use of this product. These damages include, but are not limited to, the following: lost profits, lost savings and incidental or consequential damages arising from the use of or inability to use this product. **Patton Electronics** specifically disclaims all other warranties, expressed or implied, and the installation or use of this product shall be deemed an acceptance of these terms by the user.

## SERVICE AND SUPPORT

All warranty and nonwarranty repairs must be returned freight prepaid and insured to Patton Electronics. All returns must have a Return Materials Authorization number on the outside of the shipping container. This number may be obtained from Patton Electronics Technical Support: **(301) 975-1007**; **http://www.patton.com**; or, **support@patton.com**. *Packages received without an RMA number will not be accepted.* Patton Electronics' technical staff is also available to answer any questions that might arise concerning the installation or use of your Patton Model  Patton Model 305. Technical Service hours: **8AM to 5PM EST, Monday through Friday.**

## PRODUCT DESCRIPTION

**The Patton Model 305 Micro Modem Splitter** is a passive device that allows up to three terminals to share one modem. Signals may be either asynchronous or synchronous, with baud rates up to 9600 bps. To prevent damage to the terminal devices, the transmit data (pin 2), RTS (pin 4) and DTR (pin 20) lines of each terminal connector are isolated from the other terminals (DTEs) and passed through to the DCE. All other pins are wired straight through.

## INSTALLATION

1. Connect the device to be shared, usually a modem, to the "Modem" connector on the Model 305. This device may be any RS-232 device that is configured as DCE (Data Communications Equipment).

2. Connect up to three terminals–or other RS-232 devices configured as DTE (Data Terminal Equipment)–to the connectors labeled "Terminal 1", "Terminal 2" and Terminal 3" on the Model 305.

3. Set the baud rate and word format of each device to match that of the other devices connected to the Model 305. Refer to the owner's manual for those devices.

## OPERATION

The three terminal devices will receive all data sent by the modem device. The modem device will receive all data sent by any of the terminal devices.

**Note:** The Model 305 is **not a switching device**. If two terminal devices transmit data simultaneously there *will be* a contention problem, resulting in loss of data at the modem device. It is therefore the user's responsibility to insure that only one terminal device transmits data at a time.

## SPECIFICATIONS

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| **Data Modes:** | Synchronous or asynchronous |
| **Maximum Data Rate:** | 9600 bps |
| **Device Connections:** | Three DTE devices to one DCE device; all DB-25 female connectors |
| **Wiring Configuration:** | All pins wired straight through, except pins 2, 4 and 20, which are isolated for each DTE to DCE connection.  This prevents terminal damage. |
| **Power Supply:** | Passive device, none required. |