

4-Port RJ-45 Modem Splitter (RS-232 on RJ-45)

Split data from a single modem to four RS-232 DTEs.

Passive, non-powered. Operates transparent to data formats and speeds.



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1. Specifications

Leads Supported — Pins 3, 4, 5, 7, and 8 connected straight through between the Master and Ports 1–4;

Pins 1, 2, and 6 “diode OR’ed” from Ports 1–4 to the Master port

Connectors — (1) single style RJ-45 socket connector (Master);
(1) quad-style RJ-45 connector (Ports 1–4)

Power — Non-powered; no power supply required

Size — 1" H x 2.3" W x 4.3" D (2.5 x 5.7 x 10.8 cm)

Weight — 0.25 lb. (0.11 kg)

2. Introduction

The 4-Port RJ-45 Modem Splitter (TL421A) is designed to allow multiple terminals to share a single modem. This passive device is non-powered and transparent to data formats, rates, and protocols. Data received from the modem is transmitted to all attached terminal devices. Only one terminal device may send data to the modem at a time. If more than one terminal device sends data at the same time, the data will be corrupted. Connect the Master port to a DCE device, such as a modem, using an RJ-45 straight-through cable and the appropriate RJ/DB adapter. All other ports, labeled Port 1 through Port 4, connect to DTE terminal devices. When connected to DTE devices, you don't need crossover cables.

3. Installation

There are no user-configurable settings in the 4-Port RJ-45 Modem Splitter. Simply connect your modem or other DCE device to the Master port, and connect your terminals or other DTE devices to Ports 1–4 on the Modem Splitter. For the GND signal and any signals that flow from the DCE to DTE direction, use Pins 3, 4, 5, 7, and 8. For signals that flow from the DTE to DCE direction, use Pins 1, 2, and 6. A typical configuration would be to connect RTS, DTR, and TD to Pins 1, 2, and 6 respectively, and to connect RD, GND, RI, DCD, and CTS to Pins 3, 4, 5, 7, and 8. Once all the connections have been made, power up your modem and terminals as normal. The system is now ready for operation.

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TL421A, version 2

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