

A Different Kind of Modem



A One Box Solution To Reliable Sports Data

www.serialtools.tv

sales@serialtools.tv

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The DKO Modem Features

Optically isolated inputs to eliminate ground loops.

Supports cable lengths up to 4000Ft. @ 9600 Baud.

Multiple choices of input connectors eliminates need to carry adapters.

Built-in NULL switching between DTE and DCE modes.

Support for two data types RS232 and short haul modems (20mA current loops) at the push of a button.

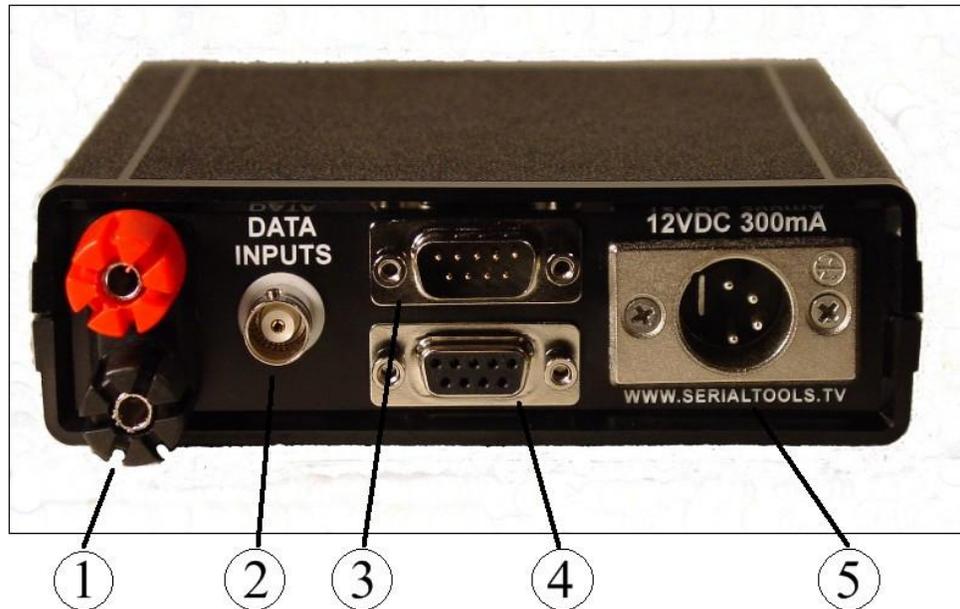
All in one box

Front Panel



- 1 **RS232 Output #1 to feed graphics computer (DCE pin2/pin5)**
- 2 **Power LED**
- 3 **Null Mode; switches between DTE/DCE (pin 2, Pin3) for the male and female DB9 input connectors.**
- 4 **Data mode; switches between RS232 or ASHM**
- 5 **Polarity; swap polarity of input wiring.**
- 6 **Data LED; illuminates with every "Bit" received.**
- 7 **RS232 Output #2 an independent data output for optional use.**

Rear Panel



- 1 Data input via binding posts (Red +, Black -).**
- 2 Data input via BNC (Center Pin +, Shell -).**
- 3 Male DB9 (DTE/DCE selectable via front panel).**
- 4 Female DB9 (DTE/DCE selectable via front panel).**
- 5 12VDC power input via 4pin XLR.**

Basic Setup

Place the DKO Modem close to the graphics computer. Avoid placing unit on top of CRT monitors.

Plug the 12VDC Power Supply into an available AC outlet.

Using a straight through 9 pin serial cable connect the DKO modems front panel output to the graphic computers' serial input connector. Connect the Scoreboard or speed Gun data cable to one of the Data Input connectors on the back of the DKO Modem.

Basic Operation

When data is being sent the yellow DATA led should flash. If it doesn't, and you are using a standard 9 pin cable to bring the data in, the fault may be because the transmit/receive wires are reversed. Push in the "DTE/DCE" button to swap those two pins.

Check the data using HyperTerminal or similar software. You should see some recognizable characters (mostly numbers).

If the DATA led is flashing but there are no recognizable characters visible in HyperTerminal try pushing the +/- polarity button.

If the Scoreboard/Speed Gun data is being provided via a short haul modem, place the DKO Modem button into the "ASHM" mode.

Questions? Contact support@serialtools.tv

Specifications

Input:

RS232 Compliance.....EIA RS-232C
Impedance.....3300 Ohms
Max Cable Distance @9.6K Baud..... 4000 Feet
Max Cable Distance @19.2K Baud..... 2000 Feet
Max Input Voltage..... +/- 50 Volts

Output:

RS232 Compliance..... EIA RS232F
ESD Protection.....+/- 15KV
HBM
Short Circuit
Duration.....Continuous

Power Supply.....12VDC
300mA

Overall Dimensions..... 6.2"X 5" X 1.53"

Warranty Information

SERIALTOOLS.TV FIVE YEAR WARRANTY

SERIALTOOLS.TV will repair, without charge, any defects due to faulty materials or workmanship for five years from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

RESPONSIBILITY OF ORIGINAL PURCHASER (initial User):

* To process a warranty claim on this product, email SUPPORT@SERIALTOOLS.TV requesting service or repair. Include a brief description of the problem, your name and contact information. You will receive an RMA number and shipping information. Freight costs, if any, must be paid by the purchaser.

* Use reasonable care in the operation and maintenance of the product as described in the Owners Manual(s).

THIS WARRANTY DOES NOT COVER:

* Merchandise that has become damaged or inoperative because of ordinary wear, misuse, cold, heat, rain, excessive humidity, freeze damage, use of improper chemicals, negligence, accident, failure to operate the product in accordance with the instructions provided in the Owners Manual(s) supplied with the product, improper maintenance, the use of accessories or attachments not recommended by SERIALTOOLS.TV, or unauthorized repair or alterations.

* Expendable parts or accessories supplied with the product which are expected to become inoperative or unusable after a reasonable period of use, including but not limited to adapters, cables and carrying cases.

* ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT IS NOT COVERED BY THIS WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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