MODEM SHARING DEVICE

User's Manual **MS-1** 04

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MS-104 is a high speed peripheral sharing device, which enables four users to share a Modem or a printer. MS-104 works with any kind of baud rate, data bits, parity & stop bits, and there is no need to select these parameters by DIP switches.
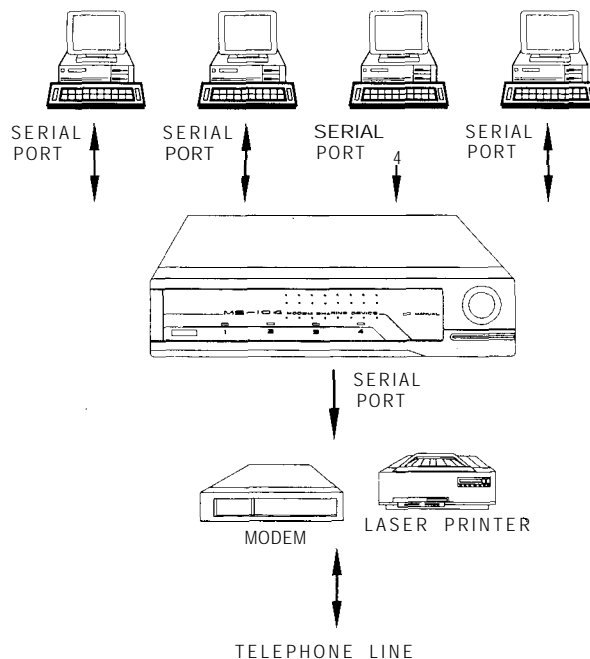
SPECIFICATION

SERIAL (RS-232) MODEL	
FUNCTIONS	SPECIFICATION
Power Consumption	AC 9V 200mA (Spare)
Cable Distance	15M (50 ft. Max)
Input Connector	Four RS-232 (DCE), DB-25 Female
Output Connector	One RS-232 (DTE), DB-25 Male
LED	Four input status & one manual status
Link Selection	Automatic/manual
Timeout Selection	10, 25, 60, 150 seconds
Operation Temperature	5°c ~ 40°c
Stock Temperature	-20°c ~ 60°c
Humidity	0% ~ 80%
Enclosure	Metal housing and plastic panel
Weight	1100gm
Dimension (mm)	225 x 154 x 52

INSTALLATION

1) Turn off the power of all computers and Modem or printer.

2) To connect a computer's COMl (or COM2) port to the MS-104's ' COMPUTER x' port, use a DB-25 female-to-male cable.

3) ■ To use a Modem, connect the Modem to the MS-104's `MO-DEM/PRINTER' port, by a DB-25 male-to-female cable.

■ To use a serial printer, connect the printer to the MS-104 s 'MO-DEM/PRINTER' port, by a DB-25 male-to-female **null-Modem** cable.

4) Set up DIP switches according to desired operation, check OPERATION for DIP switch setting.

5) Turn on the power of all computers and Modem or printer.

6) The connection example is shown in the figure below.

SERIAL PORT   SERIAL PORT   SERIAL PORT 4   SERIAL PORT

SERIAL PORT

MODEM   LASER PRINTER

TELEPHONE LINE

OPERATION

When LEDs turn on one by one in auto *mode,* the MS-104 works in first-come- first-served priority; i.e. whichever computer sends data first has the right to use the Modem or printer. To manually select a computer, simply press the button at the right of the panel till the corresponding LED turns on. When button is pressed several times, the MS-104 cycles through 'auto' → **1** → 2 → 3 → 4 → 'auto' → **1**, etc. ' **MANUAL SELECT'** LED turns off when MS-104 is in auto *mode* and on when MS-104 is in manual mode (1,2,3,4).

1) MS-104 **connects to a** Modem (DIP switch 3 & 4 are not ON):

- Back-to-auto feature: (DIP Switch 3 & 4 are OFF & ON)

  In *auto mode* : Computer is first-come-fist-served when any one originates a call. When the Modem receives a call, MS-104 broadcasts the RING signals to all computers till a computer sends a character to the MS-104 to be served.

  In manual *mode* : Only the selected computer has the right to originate and receive a call. After Timeout or a call session, the MS-104 goes back to auto *mode.*

- Non-back-to-auto feature: (DIP Switch 3 & 4 are ON & OFF)

  In *auto mode* : Same as that of the Back-to-auto feature' s auto mode.

  In *manual mode* : Only the selected computer has the right to originate and receive a call. In order to use *auto mode,* the button must be pressed to turn the ' **MANUAL SELECT'** LED off.

- Last-channel feature: (DIP Switch 3 & 4 arc both OFF)

  In *auto mode* Computer is first-come-first-served when any one originates a call. When the Modem receives a call, MS-104 directs the RING signals to the computer which sent data to the MS-104 previously. That computer' s corresponding LED is on all the time even in *auto mode.*

  In manual *mode* : Same as that of the Non-back-to-auto feature' s manual mode.

Note: • **It is recommanded to set the MS-104's Timeout to at least 25 seconds and the Modem's Ring Number (the SO register) to non-zero.**
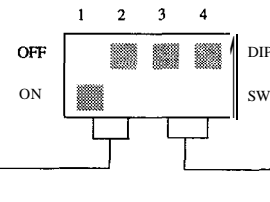
* **When a user initiates a call by sending AT** commands **(Modem commands) to MS-104, he must make a CONNECTION before Timeout expires. Otherwise, the call may be terminated prematurely.**

2) MS-104 **connects to a printer** (DIP switch 3 & 4 are ON):

MS-104 works as an autoswitch based on the first-come-first-served priority. Timeout setting is used to separate print jobs to the MS-104.

Note: * **It is recommanded to set at least 25 seconds Timeout for Windows applications.**

SWITCH SETTING

Time Out Setting		
1	2	Time Out (sec.)
ON	ON	10
ON	OFF	25
OFF	ON	60
OFF	OFF	150

Mode Setting		
3	4	Mode
ON	ON	Printer:Auto Switch
OFF	ON	Modem:Back-to-Auto
ON	OFF	Modem:Non-back-to-Auto
OFF	OFF	Modem:Last channel