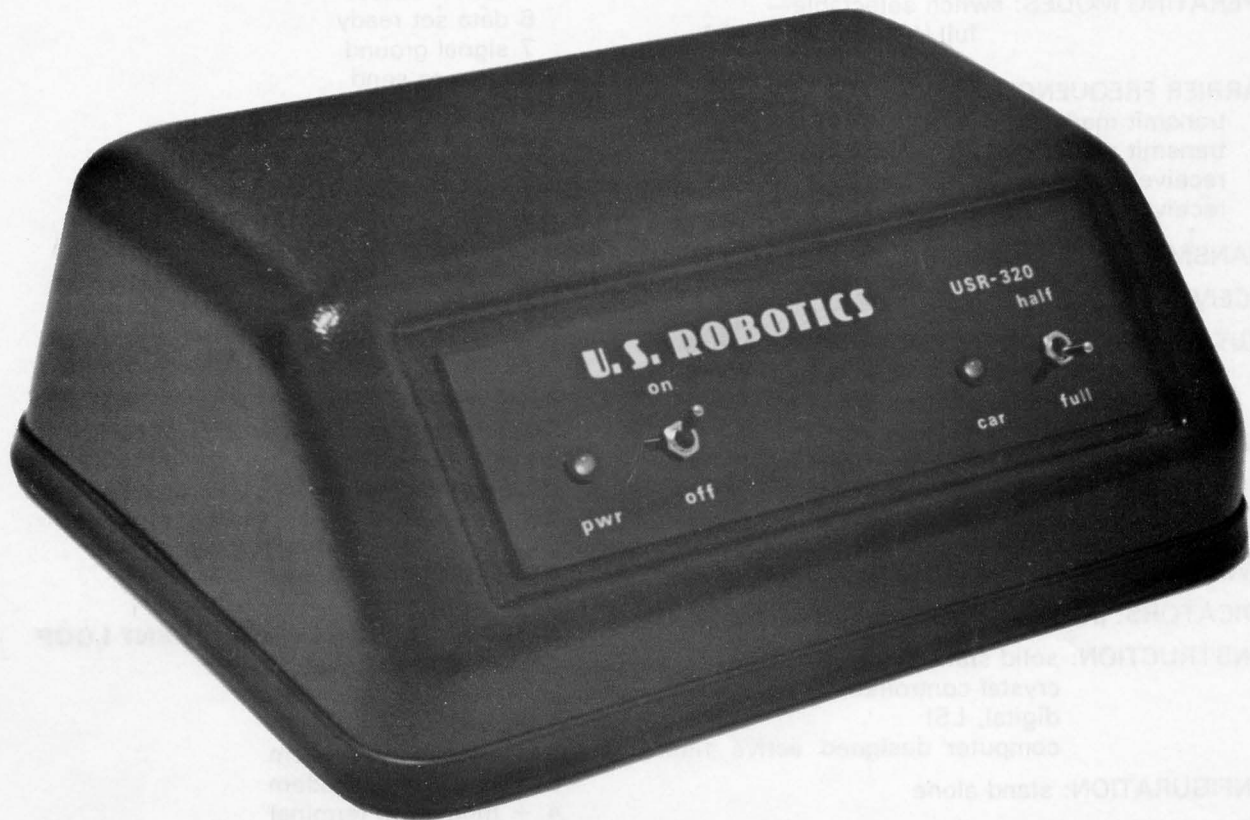


# U. S. ROBOTICS

## USR-320

### AUTO ANSWER MODEM



- 0-300 BAUD DATA RATE
- STAND ALONE UNIT
- INTERFACES: RS232C  
20mA CURRENT LOOP

#### DESCRIPTION

The USR-320 is a hardwire, asynchronous, auto answer modem that operates in half and full duplex modes at data rates of up to 300 baud. The design incorporates powerful MOS/LSI integrated circuitry, crystal controlled digital receiver and transmitter and computer designed active filters to produce a reliable, compact and versatile unit. The USR-320 comes with power supply and is housed in a durable and attractive case designed for desk-top display. Connection to voice grade telephone lines is via a standard CBS-1001F Data Access Arrangement (DAA). The USR-320 is available with an EIA RS232C interface, a 20mA current loop interface or both EIA RS232C and 20mA current loop interfaces.

- HALF/FULL DUPLEX
- HARDWIRE CONNECTION  
via CBS-1001F DAA

#### APPLICATION

Installation of a USR-320 means on-line, auto answer capability for your system, from the smallest microcomputer to a system-370. Once connected to the computer and the phone line, the modem will automatically answer incoming calls, placing off-site users in contact with the computer. Terminals, printers and any other data transmission equipment conforming to the standard RS232C or 20mA current loop interfaces can also be connected to the phone lines via the USR-320. The unit provides auto answer operation at a price far lower than units offered by other manufacturers.

## TECHNICAL SUMMARY

DATA RATE: 0-300 bps asynchronous  
MODULATION: Frequency Shift Key (FSK)  
COMPATIBILITY: WE103 and WE113 series  
OPERATING MODES: switch selectable—  
full/half duplex (copy)  
CARRIER FREQUENCIES:  
transmit mark 2225  
transmit space 2025  
receive mark 1270  
receive space 1070  
TRANSMIT LEVEL: -9 dBm (fixed)  
RECEIVE LEVEL: 0 to -45 dBm  
DIGITAL INTERFACE: RS232C via 25 pin connector  
20mA current loop via 9 pin  
connector  
LINE INTERFACE: via CBS-1001F DAA  
ABORT DISCONNECT: 17 seconds  
LOSS OF CARRIER DISCONNECT: 17 seconds  
POWER REQUIREMENTS: 115 VAC, 60Hz  
INDICATORS: power on, carrier detect  
CONSTRUCTION: solid state  
crystal controlled  
digital, LSI  
computer designed active filters  
CONFIGURATION: stand alone  
SIZE: 4" x 7" x 10"  
WEIGHT: 3 lbs.  
COLOR: black

## DEFINITION OF RS232C CONNECTOR PINS

- 1 protective ground
- 2 transmit data, terminal to modem
- 3 receive data, modem to terminal
- 4
- 5 carrier detect
- 6 data set ready
- 7 signal ground
- 8 clear to send
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20 data terminal ready
- 21
- 22 ring indicator
- 23
- 24
- 25

## DEFINITION OF 20mA CURRENT LOOP CONNECTOR PINS

- 1 ground
- 2 + terminal to modem
- 3 - terminal to modem
- 4 + modem to terminal
- 5 - modem to terminal
- 6 20mA current sink
- 7 20mA regulated current sink
- 8
- 9

## PRICES

<b>USR-320 with RS232C INTERFACE</b>	<b>\$160.00</b>
<b>USR-320 with 20mA CURRENT LOOP INTERFACE</b>	<b>\$160.00</b>
<b>USR-320 with RS232C and 20mA CURRENT LOOP INTERFACES</b>	<b>\$170.00</b>

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