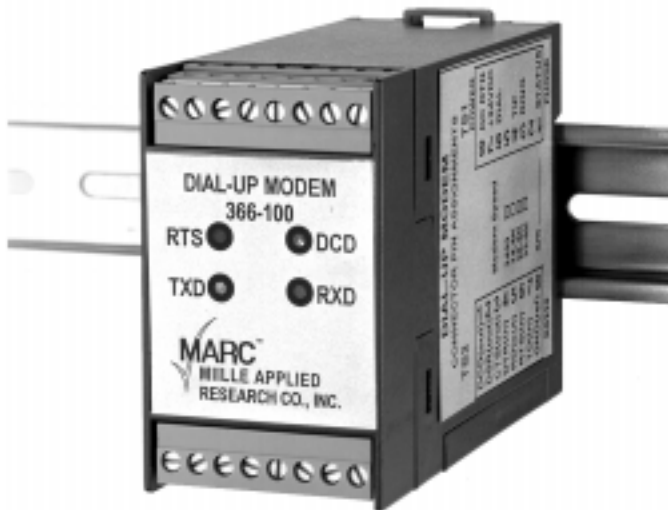


## DIN-RAIL MOUNTABLE DIAL-UP TELEPHONE MODEM



The MARC™ Model 366-100 is a full-function dial-up modem that mounts on a standard DIN-rail and provides data communications with other Bell and CCITT compatible modems at speeds up to 33.6K baud.

This modem provides convenient terminal compression screw hook-up and clearly marked, easily accessible switches for quick and accurate operating mode configuration.

Flexible and low power requirements, compact size and DIN-rail mounting make the Model 366-100 ideal for providing long distance dial-up data communication capability for PLC's and other intelligent devices.

- Data communications for remote PLC
- Bell and CCITT compatible
- Opto Isolated Input and Output for easy control
- Auto answer & dial on public phone lines
- Remote PLC troubleshooting & program revisions using a PC
- Hayes® compatible test & diagnostics
- FCC Part 68 Approved
- Low power and automatic standby mode
- 12 or 24 VDC powered

The Auto-Answer and Auto-Dial features of the modem allow it to use the public switched telephone network for communications. Besides providing greater economy and flexibility, this method allows a remote PLC to be accessed from any modem-equipped personal computer for troubleshooting and program revisions. Powerful test modes include response to remote digital loopback commands issued by Hayes® compatible modems.

The modem operating mode and other configuration information is stored in EEPROM memory on-board the modem. The Modem is configured using a PC with a terminal emulation program such as Terminal, Hyper-terminal or Procom installed.

The modem can be configured for both auto-answer and auto-dial modes of operation. When the auto-answer mode of operation is selected, the number of rings before the modem will answer the call is selectable by the user.



When the specified number of rings has occurred, the modem will answer the call and start an auto answer sequence. At the start of the Auto Answer sequence, the modem's serial port is disconnected from the telephone line. After answering the incoming call, the modem begins a handshake sequence with the calling modem to determine the optimum baud rate and signaling standard. Once this is determined, the modem connects to the serial port, switches to the DATA mode and transfers data unchanged between the serial port and the line. The serial port baud rate is fixed at a constant, user definable rate, regardless of the modem line connect rate.

The modem can also be configured for auto-dial operation. When the auto-dial mode is enabled a dial sequence is initiated when the serial port Data Terminal Ready (DTR) line first goes active (high) after a period of inactivity. The modem dials a stored telephone number and waits for a connection to be established with the remote modem. When the connection is completed the modem returns a Clear to Send (CTS) to the serial port enabling the transfer of data. The modem hangs up the telephone line and returns to standby when the DTR line returns to the inactive state.

A DIN-rail mounted leased line modem is also available. The MARC 366-101 Leased Line Modem should be used when multi-drop leased lines are used for communication. The 366-101 can also be used with many voice grade radios to provide a data communication path where leased lines are not present.

Both the 366-100 Dial-up and 366-101 Leased Line modems can be used with the MARC DIN-rail mounted OMNII-COMM™ or the DIN-rail mounted MULTII-PORT™. The MARC 266-P00 OMNII-COMM™ is a universal communications module based on a powerful microprocessor that is used to provide protocol conversion, remote polling, data concentration and many other functions. The MARC 366-10P MULTII-PORT™ is an intelligent port multiplier that can increase a single serial communication port to 2, 3 or 4 ports. Please see the 266-P00 and 366-10P *Product Data Sheets* for additional details.

MARC also manufactures a complete line of plug-in and stand-alone protocol conversion modules, polling masters, data concentrators and modems for the Allen-Bradley family of PLCs. Similar modules are available for PLCs from other manufacturers.

## Specifications

### Physical

DIN-rail mountable unit 1.75"W X 3.0"H X 4.1" D

### Operating Environment

0° to 60° Celsius

10% to 90% relative humidity (non-condensing)

### Power Requirements

DC power 24 VDC 40 ma

DC power 12 VDC 80 ma

### LED Indicators

Provide status of the following signals:

TXD, RXD, RTS and DCD

### Connections

Two 8-pin pluggable terminal strips

### Operating Modes and Speeds

Serial port speeds from 300bps to 9,600bps, 19,200bps or 38,400bps depending on the model selected.

Serial port speed remains constant regardless of modemconnect speed.

Supports Modulation/Demodulation standards V.34bis, V.34, V.FC, V.32bis, V.32, V.22bis, V.22, Bell 212A and 103 and error correction protocols V.42, MNP2-4 and data compression protocols MNP-5 and V.42bis.

### Order Information

366-100-XY.Z

X=0, Y=2, Z=4 for 02.4 K Baud

X=1, Y=4, Z=4 for 14.4 K Baud

X=2, Y=8, Z=8 for 28.8 K Baud

X=3, Y=3, Z=6 for 33.6 K Baud

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