

Yaskawa Systems Application Engineering
Remote Service via Telephone Line, PC – Modem – MP940

Remote Login Directly to MP940

[PC w/ MotionWorks] to [Modem] to [Modem] to [MP940 port 1]

Three programs are needed when connecting remotely to a Yaskawa MP940. This document is intended for the intermediate to advanced user. The user should have knowledge of all three programs before attempting to connect remotely.

1. Windows Hyperterminal (Included with Windows NT, 98, 95)
2. Yaskawa MotionWorks (Yaskawa Programming Software)
3. SixNet Modem Setup (Included with every modem)

Steps required when accessing MP940 remotely.

1. Store parameters into SixNet modem located in machine enclosure
 - Software: MP940_modem.6ms
 - Configuration:
 - Modem Type: VT-MODEM-1 (industrial modem)
 - Country: USA
 - Device: COM1
 - Flow Control: Hardware (RTS/CTS)
 - Baud Rate: 19200
 - Parity: Even
 - Data Bits: 8
 - Stop Bits: 1
 - Ignore DTR checked
 - Enable Auto-Answer checked : 1
 - Flow Control: Hardware (RTS/CTS)
 - Auto-Detect speed checked: 19200
2. Store parameters into SixNet Modem at remote location
 - Software: PC_Modem.6ms
 - Configuration:
 - Modem Type: VT-MODEM-1 (industrial modem)
 - Country: USA
 - Device: COM1
 - Flow Control: Hardware (RTS/CTS)
 - Baud Rate: 19200
 - Parity: Even
 - Data Bits: 8
 - Stop Bits: 1
 - Ignore DTR checked
 - Flow Control: Hardware (RTS/CTS)
 - Auto-Detect speed checked: 19200

Yaskawa Systems Application Engineering
Remote Service via Telephone Line, PC – Modem – MP940

3. The following cable must be designed and connected between the SixNet modem 9 pin serial and Port1 of MP940

MP940	SixNet
1 -----	3
3 -----	2
6 --- 12	1---4---6
	7---8
14 -----	5
	9

4. The standard cable (straight thru) sent with the SixNet must be connected to COM1 of the PC and 9 pin Serial of the remote SixNet Modem.
5. Connect modem to modem by opening HyperTerminal
- Software: Yaskawa_MP940.ht
 - Configuration:
 - Connect using: Direct to COM1
 - Bits per second: 19200
 - Data bits: 8
 - Parity: even
 - Stop bits: 1
 - Flow Control: Hardware
 - Type in the data between the quotes: "ATDT91XXXXXXXXXX", then enter (Area Code, Phone number)
 - Wait approximately 30 seconds and the response will read "Connect 19200"
 - Exit Hyperterminal
6. Open Yaskawa MotionWorks
- Communications Manager Configuration:
 - Logical Port: 1
 - Port Kind: Serial
 - TimeOut: 10000
 - Physical Port: COM1
 - Unit No: 1
 - Baud Rate: 19200
 - Data Bits: 8
 - Parity: Even
 - Stop Bits: 1
 - Using File Manager, log-on on-line

Yaskawa Systems Application Engineering
Remote Service via Telephone Line, PC – Modem – MP940

7. To disconnect Hyperterminal open the same session of HyperTerminal as above.
 - Type “+++”
 - Wait approximately 30 seconds and the response will read “OK”.
 - Type “ATH” then enter
 - Exit Hyperterminal.