Installation

The DS 3, 6, and 9 with optional input module choices such as the DS 71, 72, 73, 74, and 71MD-3. This manual will be divided into sections that go into brief detail about each product listed above. The actual screen displays on your unit may vary by model.

Remove the DS from the package. Check the contents of shipment to make sure that you received:

- ❑ DS base unit with modules.
- ❑ RJ08X007 (RJ45 Rollover Cable)
- ❑ 9FRJ45PC-4 (DB-9 to RJ45 Adapter)

Serial Setup

- Connect the *9FRJ45PC-4* adapter to the user's computer.
- Connect the RPC's EIA-232 port to the adapter via the *RJ08X007* rolled flat ribbon cable.
- Use terminal emulation software to access the unit.[1]

Configuration

Once connected you will see the menu screen as shown in *Figure 1*. This shows the operation of the unit. When prompted at the unit's startup menu select "C" followed by a <CR>[4]. You will be brought to the Configuration menu.

Figure 1

```
Configuration
D S72                (1)...1
D S71-MD3            (2)....2
D S73                (3)....3
D S74                (4)....4
Exit.....X,CR
Enter Request:
```

Figure 2

```
Copyright(C) Bay Technical Associates 2001
D S71-MD3 Data Switch Series - V.34 Modem Host Module
Revision F4.01
Module 2

Status.....1
Serial Port Configuration.....2
Port Device Name.....3
Port Select Code.....4
Attention Character.....5
Disconnect Timeguard.....6
Connect Port ID Echo.....7
Login Setup.....8
Local Modem Setup.....9
Unit ID.....U
Exit.....X, CR
Enter Request:
```

At the prompt, type the number associated with the DS71-MD3, followed by a <CR>. You will be taken to the DS71-MD3 configuration window where you will be able to edit any of the information listed in *Figure 2*. The following pages define each line of the configuration menu.

[1] We recommend Windows HyperTerminal with a port configuration set to 9600, 8, none, 1. This manual uses Tera Term found at http://hp.vector.co.jp/authors/VA002416/ttermp23.zip .

[2] The modem connection has priority of a serial connection. When you log on with the internal modem, the serial port user will be "booted" off.

[3] The "Line" ports of the internal modem are in parallel. Both are active and can be used when needed.

[4] <CR> = HRT or ENTER

associated information.

Serial Port Configuration

DS-Series host modules translate data for devices using different serial configurations.[5]

The Baud Rate, Word Size, Stop Bits, and Parity can all be configured through the serial port using the self-explaining menus.[6] Xon/Xoff, RTS Line Driver, and DTR Line Driver cannot be configured using the serial port; they must be configured using the phone line.

Port Device Name

Select the port you want to rename and press ENTER.[7] Type what you wish to rename the port.

Port Select Code

The Port Select Code is an ASCII character string sent by the host terminal to the DS71-MD3 module to select an I/O port on a DS74 peripheral module. The Port Select Code's default state is $BT and is programmable up to 8 characters.

Attention Character

This menu will allow you to change the value of the attention character for the DS series, so as not to negate the access menu for a network operable RPC.

Disconnect Timeguard

This feature provides reliable binary data transmission by providing a one-second "timeguard" after the DS-Series receives the attention character, eliminating unwanted port disconnection. Its default is disabled.

Connect Port ID Echo

This identifies the module number and port number you are connected to. To change; select *7* followed by a <CR>. To Enable select *Y* followed by a <CR> and you will see *Figure 3*.

By selecting 2 followed by a <CR>, you can echo the module and port number.

By selecting *3* followed by a <CR>, you can echo the device name.

Unit ID

Describes the model number of the unit ID.

Figure 3

```
Disable Port ID Echo……1
Use Module, Port number……2
Use Device Name……3
Exit……X, CR
Enter Request:
```

[5] The default configurations are **9600bps**, **8 data bits**, **no parity**, **one stop bit**, **Xon/Xoff** and **DTR low**.

[6] Attention Character = semi-colon (;) by pressing the attention character key 5 consecutive times, you will return to the main status menu.

[7] The DS71-MD3 has two host devices. When you select certain configuration options you will have to specify the device you want to configure. The EIA232 port is Port1 and the Modem is Port2.

The unit can be controlled through the menu in *Figure 4*. Login Headers are enabled by default. Each line of this menu is defined below.

Figure 4

```
Header.....1
Access Control.....2
Menu.....3
Manage Users.....4
Auto Connect.....5
Dial Back Number.....6
Assign User Ports.....7
Exit.....X, CR
Enter Request:
```

Header
This will allow access to the menu where you can Enable/Disable headers.

Access Control
Control the level of security for user access as shown in *Figure 5*.

Figure 5

```
Network access:
   1)...Prompt for user name: disabled
   2)...Prompt for password:  disabled
Serial Port Access:
   3)...Prompt for user name: disabled
   4)...Prompt for password:  disabled
Enter option>
```

Menu
This will allow the user to Enable/Disable the login menu. Default state is Enabled.

Manage Users
This will allow the user to change user passwords.

Auto Connect
Allows the user to Enable/Disable the login menu. Default state is Enabled.[8]

Dial Back Number
The dial back security feature allows the administrator to force the user to dial from a certain location.

Assign User Ports
Allows the administrator to control user access to ports.

Local Modem Setup

Figure 6 allows the user to setup the Modem options.

Figure 6

```
Local Modem Setup :
Rings to Answer.....................1
Connectivity Timeout................2
Escape Character....................3
Modem to Modem Xon/Xoff.............4
Inactivity Timeout..................5
Exit................................X,CR

Enter Request :
```

Rings to Answer
This menu will enable you to change the number of rings you want to allow before the modem answers.

Connectivity Timeout
Configure the amount of dead time before the modem automatically disconnects.

Escape Character
Allows characters to be interpreted as commands rather than data. Normal operation will not require this feature, however there may be a situation where an external device would echo the escape character sent to the dial-in modem. Default Escape Character is 43, which is 2B Hex or a plus sign (+).

Modem to Modem Xon/Xoff
The Xon/Xoff character is an ASCII character that is used to communicate from one modem to another.

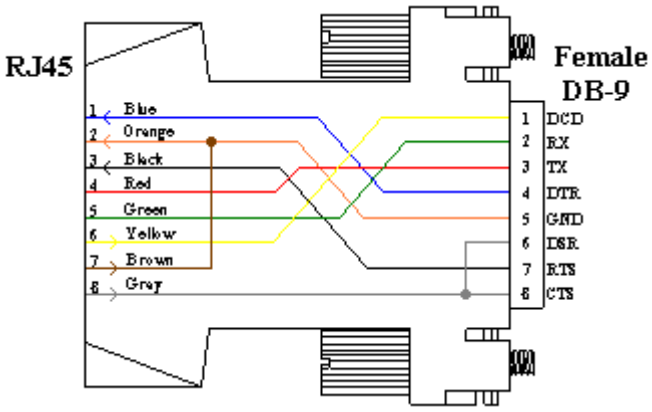
Inactivity Timeout
This is where you can set the amount of time you wish to pass before timeout happens from inactivity of the module.

Cables and Adapters

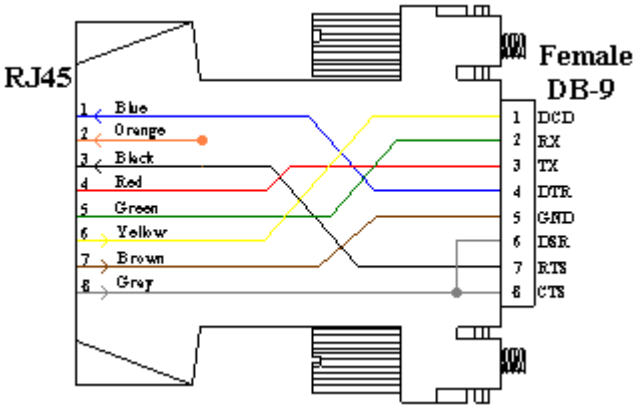
Listed are the pin specifications for the BayTech cable and adapters and the terminal COM ports:

Signal	RS-232 Port (DS)	RS-232 Port (RPC)	Com Port DE-9	COM Port DB-25 Pin	
DTR	1	1	4	20	DSR
GND	2	2		1	GND
RTS	3	3	7	5	CTS
TxD	4	4	3	2	RxD
RxD	5	5	2	3	TxD
DSR	6	N/C	6	6	DTR
GND	7	7	5	7	GND
CTS	8		8	4	RTS
DTR			4		DCD
DCD		8	1	8	DTR
RI	9			22	

9FRJPC-1



9FRJPC-4



RJ08X007