

# *RPC Series Manual*

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***REMOTE POWER CONTROL***

***QUICK START***

***FOR***

***DS71-MD4 MODULE***

**BayTech Manual Publication**

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# QUICK START: DS71-MD4 Module

by Bay Technical Associates

For those Administrators who have requested the bare minimum for this type of equipment, follow these steps exactly. If this is a new unit shipped directly from Baytech, follow the steps. If this is a previously own unit, perform a factory reset to clear out any users and passwords still in the unit.

## Serial/Modem Configuration:

1. Connect the 9FRJ45PC-4 or 9FRJ45PC-1 adapter to your PC.
2. Connect the supplied rollover flat cable RJ08X007 to the adapter and to the EIA232 serial port on the Baytech DS71-MD4 Module.
3. Use terminal emulation software to access the unit, (i.e. Microsoft Hyper-terminal). Set the PC serial port configuration to the following: **9600 bps, 8 data bits, 1 stop bit and no parity.**
4. If you get only a blinking cursor Press 'Enter'. If still only a blinking cursor, Type 5 semi-colons (;),The Attention Character will not echo on the screen. There is a one second delay before the menu is displayed. You should see a menu similar to (Figure 1).
5. Select 'C' for the configuration menu.
6. Select the DS71-MD4 module. You should see a menu similar to (Figure 2).
7. Select the number for 'Login Setup' option. You should see a menu similar to (Figure 3).
8. Select the number for 'Manage Users' option. You should see a menu similar to (Figure 4).
9. **NOTE: The 'admin' user can not be deleted.**
10. Select 'A' to add user. Type the name and password at the prompts.
11. Press 'Enter' until get to the 'Login Setup Menu' (Figure 3).
12. Select option 'Access Control' to enable or disable the Modem and Serial Login Prompts.
13. Press 'Enter' until get to the 'Login Setup Menu' (Figure 3).
14. Select option 'Assign User Ports' (Figure 5).
15. Select the user and add the ports.
16. Press 'Enter' until you get the Configuration menu (Figure 2).
17. Select 'Serial Port Configuration' and set up the modem configuration.

At this point you have setup enough basic configurations to operate this Baytech unit.

## Serial Setup

- Connect the *9FRJ45PC-4* adapter to the user's computer
- Connect the Host Module's EIA-232 port to the adapter via the *RJ08X007* rolled flat ribbon cable.
- Default configuration is **9600 bps, 8 data bits, 1 stop bit and no parity.**

**NOTE:** At any time during the session you need to go to another menu, use the **Attention Character = semi-colon (;)**. Press the attention character key 5 consecutive times to get back to the main status menu.

**NOTE:** Depending on the DS-Series model, the menus will vary according to the number of DS74 modules installed in the unit. If this is not an initial set-up and Password has already been enabled, you are prompted to login. After logging in successfully, invoke the main menu by sending the attention character five times (;;;;;).

**NOTE:** Password feature is case sensitive. (Default is user/password is **root/baytech**)

## Main Menu

The following Header and Menu appears or similar:

Figure 1

```
Data Switch Series - F.1.04.00
Bay Technical Associates
Unit ID: DS71-MD4
Attention Character: ;
  Module 1: admin      on Host EIA-232
  Device A      (3,1).....1
  Device B      (3,2).....2
  Device C      (3,3).....3
  Device D      (3,4).....4
  DS-RPC        (5,1).....5
  Configuration .....C
  I/O Modules Reset .....RM
  Unit Reset    .....RU
  Exit          .....X
  Logout       .....T
Enter Request :
```

Select option **C** for the configuration menu. Select the **DS71-MD4** module option and the following menu is displayed:

Figure 2

```
Copyright(C) Bay Technical Associates 2006
DS71-MD4 Data Switch Series - V90 Modem Host Module
Revision F.1.01.01
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 Option .....9
Unit ID .....U
Exit .....X, CR
Enter Request :
```

## Login Setup

This menu allows the user to enable or disable the Header, Access Control, Menu, Manage Users, Auto Connect, Dial Back Number, and Assign User Ports.

**Figure 3**

```
Login Setup:
Header .....1 Enable/Disable header for each menu
Access Control .....2 Enable/Disable Network/Serial port user name
and password.
Menu .....3 Enable menu on startup or 5 attention Char.
Manage Users .....4 Add/Delete users and change passwords.
Auto Connect .....5 Auto connect to module and port on power-up,
Has priority over setup menu, Disables the
menu selection screen on initial login.
Dial Back Number .....6 Have the modem to dial back the user
Assign User Ports .....7 Assign users to specific ports
Exit .....X,CR Returns to previous menu
Enter Request :
```

**Header**

This allows the admin to have enable or disable Header upon connection to the host module.

**Access Control**

This security feature allows the admin to enable or disable usernames and passwords for both serial and modem port access.

**Menu**

This allows the admin to enable or disable the Menu on start up. The default user and password is “admin/baytech”, all lower case.

**Manage Users**

This option allows the administrator to change user passwords or add/delete new users. Up to 19 users plus an administrator allowed. Usernames are case sensitive and alphanumeric.

**Figure 4**

```
User Management Menu:
"admin" ..... 1
Add New User .....A
Delete User .....D
Change User .....C

To change user password, enter number of user
Enter Request :1
```

**Auto Connect**

This feature allows the admin to select the module and port that the user will be automatically connected on dial-in.

## Dial-Back Number

This allows user to dial in, hang up and the unit dials the assigned number back when using a secure phone line.

## Assign User Ports

This option allows the administrator to limit users' port access.

Figure 5

```
Assigned User Ports:
+-----+-----* +-M3--M4--M5--+
|User|   Name  \ |1234|1234|1234|
+-----+-----*-----+-----+
|  2  | johnt   |x234|123x|1xx4|
+-----+-----*-----+-----+
Add Port(s).....1 Adds individual ports
Remove Ports(s).....2 Removes individual ports
Add All Ports.....3 Add All
Remove All Ports.....4 Remove All
Exit .....X,CR

Enter Request :1
```

## Local Modem Option

Figure 5

```
Local Modem Option:
Rings to Answer .....1 Auto-answer 1-4, Default 2
Connectivity Timeout .....2 5-255 minutes, Default 60 minutes
Inactivity Timeout .....3 1-120 minutes, Default 0
Exit .....X, CR

Enter Request :
```

## Ring to Answer

This option sets the number of rings before the unit answers.

## Connectivity Timeout

This option sets the continuous connectivity time (5 to 255 minutes) before the modem automatically disconnects.

## Inactivity Timeout

This option sets the time the modem will automatically disconnect, if there is no activity equaling the programmed amount of time (1 to 120 minutes).

# CABLING

## RJ-45 Cable

**IMPORTANT:** The BayTech unit has an RJ45 port, which uses an 8-pin rollover cable to connect to the local EIA232 device, such as a computer terminal or external modem. For those serial computers that do not have an RJ45 connection, an adapter is provided to connect from a DE-9 connector to a RJ-45 connector, (see cable and adapter diagram). An adapter to convert from a DB25 connector to an RJ45 connector is also available from BayTech, upon request. The 8-pin rollover modular cable is configured to operate with either adapter.

**CAUTION:** All power should be removed from the BayTech unit prior to removing or installing cables and /or adapters.

### RPC RJ-45 pin Signals

Pin	EIA 232 Signal	Signal Direction	Description
1	DTR	Out	+10V when activated by DCD. Toggles on logout for modem disconnect.
2	GND		Signal Ground
3	RTS	Out	+10 V when power is applied. Not used as a handshake line.
4	TX	Out	Transmit (Data Out)
5	RX	In	Receive (Data In)
6	N/C	In	No Connection.
7	GND		Signal Ground
8	DCD	In	DCD into the RPC.

### Adapter signals

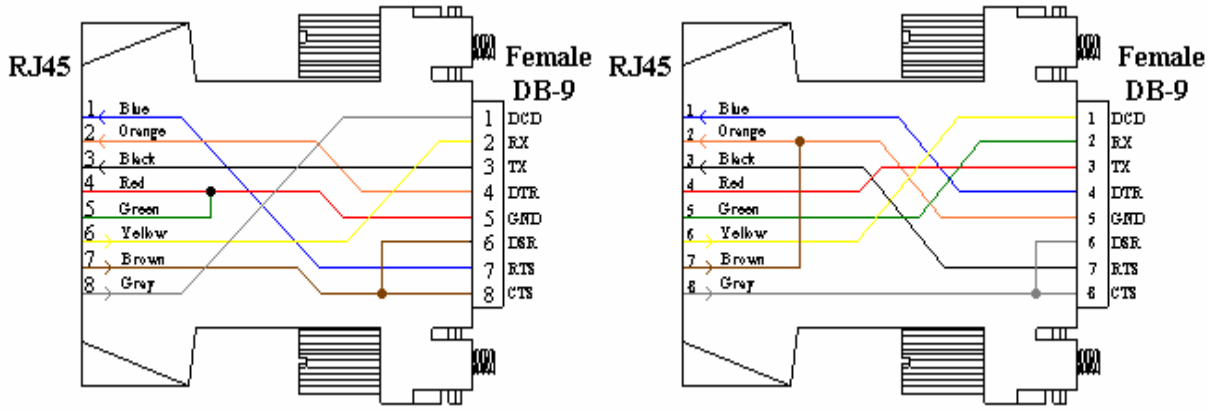
Listed are the pin specifications for the BayTech cable and adapters and the terminal COM ports:

Signal	RS-232 Port (DS)	RS-232 Port (RPC)	COM Port DE-9 Pin	COM Port DB-25 Pin	Signal
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	

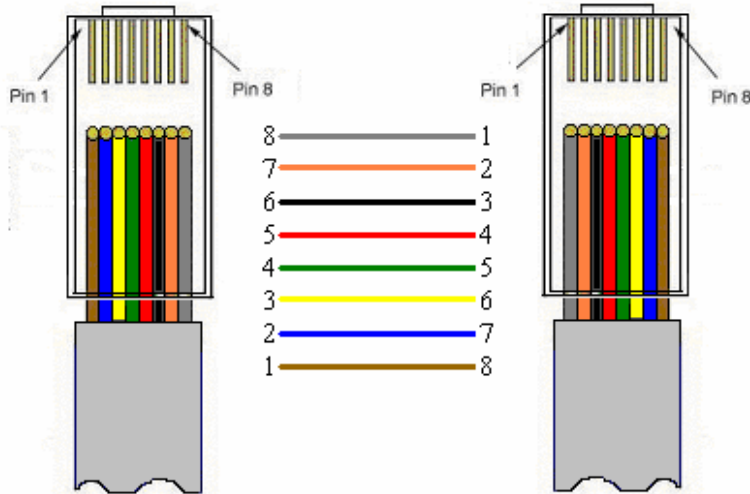
# Adapters

9FRJ45PC (With Cisco Interface)

9FRJ45PC-1 (Without Cisco Interface)



RJ08X007



Figures 1 and 2 provide visual representation of an RJ-45 receptacle and plug.

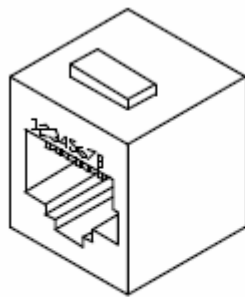


Fig. 1: RJ-45 Receptacle

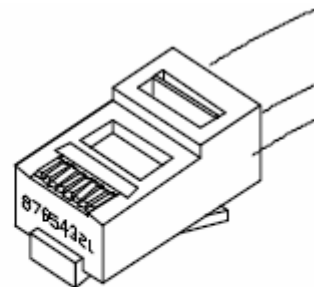


Fig. 2: RJ-45 Plug