

DS Series Manual



DATA SWITCH

DS72 ETHERNET Host Module

QUICK START

BayTech Manual Publication

Revision May 2008

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QUICK START: DS72 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.

Ethernet Controller Configuration:

Before continuing your System Administrator needs to tell you to use DHCP or BOOTP or give you an IP Address, Subnet Address, and Gateway Address.

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 DS62 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 DS72 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 Tenet and Serial Login Prompt.
13. Press 'Enter' until you get the Configuration menu (Figure 2).
14. Select 'Network Port Configuration' option. You should see a menu similar to (Figure 5).
15. If your System Administrator requires you to use DHCP, then select 'DHCP Enable/Disable' and type 'Y' to enable DHCP, or select BOOTP and type 'Y' to enable BOOTP. If you wish to assign a static IP address to this unit, disable the DHCP and BOOTP and go to step 18.
16. Press 'Enter' until you are asked to 'Accept Changes'. Type 'Y' to accept changes.
17. After Accepting or Declining Changes Press 'Enter' until you get the Network Access Menu (Figure 1).
18. Select 'Unit reset' to update the external connections. Once the reset is completed (1 minute) connect the Baytech device to your network using an Ethernet cable.
19. If you disabled the DHCP in step 15, you should see a menu similar to (Figure 5).
20. Select the 'IP Address' option and type the assigned IP address and press 'Enter'.
21. Select the 'Subnet Mask' option and type the assigned subnet mask address and press 'Enter'.
22. Select the 'Gateway Address' option and type the assigned Gateway address and press 'Enter'.
23. Press 'Enter' until you are asked to 'Accept Changes'. Type 'Y' to accept changes.
24. Press 'Enter' until you get the Network Access Menu, (Figure 1).
25. Select 'Unit reset' to update the external connections. Once the reset is completed (1 minute) connect the Baytech device to your network using an Ethernet cable.

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

Serial Port 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 Menu appears or similar:

Figure 1

```
Module: 2
Attention Character: ;
Device A .....1
Device B .....2
Device C .....3
Device D .....4
DS-RPC .....5   Status of outlets
Configure.....C   Module Setup
Status.....S     Current Setup Configuration
Unit Reset.....RU Resets the DS-Unit, terminates internal,
                  external modem connections, allow 10
                  seconds for reset.
Logout.....T
```

Select option 'C' for the configuration menu. Select the DS72 module option and the following menu is displayed:

Figure 2

```

DS72 Data Switch Series - Telnet Host Module
Revision F.3.21.4      Kernel   K.1.01H
Core      C.1.00N      Hardware H.2.01
Module 2

Status.....1      Current status of DS72 module
Serial Port Configuration.....2  Change port config, 9600, 8, 1, none
Port Device Name.....3      Change the name of the module port
Attention Character.....4      (;;;;) get Main Menu
Disconnect Timeguard.....5      Delay to see if more data after ';' char
Connection Override.....6      User override another for priority
Connect Port ID Echo.....7      Enable echo module & port#, device name
Login Setup.....8      Manage User, Port, Header
SNMP Configuration.....9      Trap Address, Read/Write, Enable/Disable
Network Port Configuration.....10  Ethernet configuration menu
Unit ID.....11      Name of the module
Upgrade Firmware.....12      FTP-Firmware upgrade w/user password
Active Restore.....13      Allow units to internally reset for
                             freezes, login idle timeouts,
RPC Management.....14      Set thresholds temp/v/c
Exit.....X,CR
Enter Request :1
    
```

Select option '8' to add users with passwords and Enable/Disable access to the Network and Serial ports. Select option '10' to configure the Ethernet port

Login Setup

Figure 3

```

Header.....1      Enable/Disable Header for each menu
Access Control.....2      Enable/Disable Network/Serial port
                             user name and password
Manage Users.....3      Add/Delete users and change passwords
Exit.....X,CR
    
```

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.

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

To change user password, enter number of user.
To add/delete user, select appropriate menu choice.
Enter request, CR to exit menus.

    A)...Add user
    1)...admin
Enter Request :a
```

Network Port Configuration

Figure 5

```
Network Configuration
IP Address:  0.0.0.0
Subnet Mask: 0.0.0.0
Gateway:    0.0.0.0
Ethernet Address: 00.C0.48.06.57.4C
Connection Inactivity Timeout (mins): Disabled
Carriage Return Translation: Disabled
Break Length (msecs): 350
DHCP is Disabled   Bootp is Enabled   Telnet is Enabled
IP Address.....1   Ethernet port IP Address 0.0.0.0
Subnet Mask.....2   Tells when to listen Address 0.0.0.0
Gateway Address...3   Router/Hub/Switch IP Address 0.0.0.0
Inactivity Timeout...4   Set timeout, in minutes
                        (<=120,0=disable)
Carriage Return Translation.....5   Enable/Disable
Break Length.....6   Set in milliseconds (<=10000,
                        0=disable)
Bootp.....7   Enable/Disable
DHCP.....8   Enable/Disable
Telnet.....9   Enable/Disable
Exit.....X,CR
```

IMPORTANT: For network access, either Enable the DHCP, BOOTP or disable the DHCP and BOOTP, then configure the IP addresses, Subnet Mask, and Gateway Address. The module must be reset for network changes to take effect.

Cabling

RJ-45 Cables and Adapters

DS72 EIA-232 RJ-45 Pin/Signal Definition

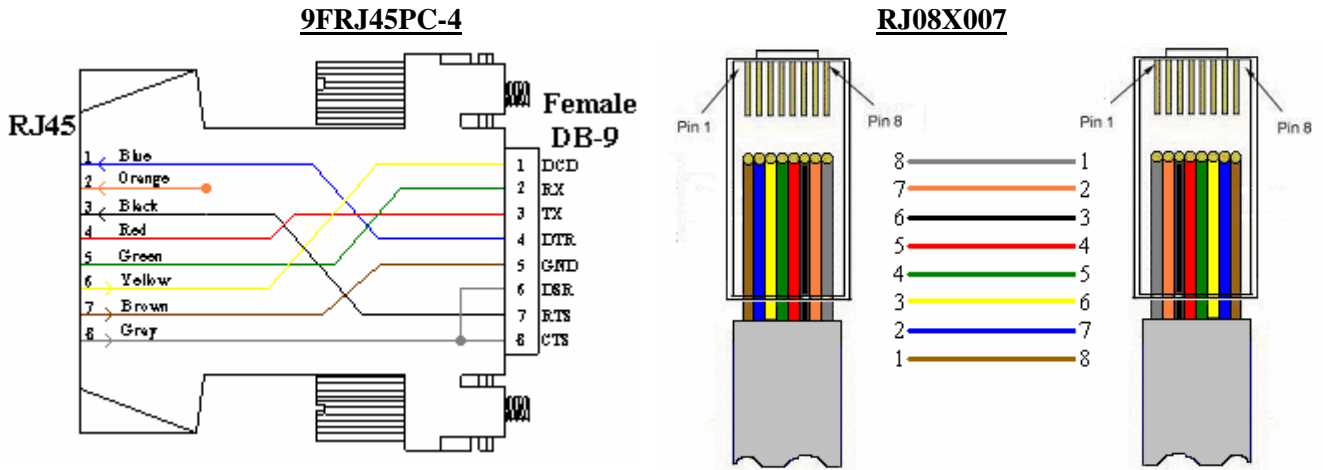
Pin	EIA 232 Signal	Signal Direction	Description
1	DTR	Out	Handshake, Line Driver Inactive State = High: +12V when power is applied. Used as a handshake line to enable/disable the receiving of characters.
2	GND		Signal Ground
3	RTS	Out	Handshake, Line Driver Inactive State = High: +12 V when power is applied. Not used to enable/disable.
4	TX	Out	Transmit Data Out
5	RX	In	Receive Data In
6	DSR	In	Handshake In. -12V when not used.
7	GND		Signal Ground
8	CTS	In	Used as a handshake line to enable/disable the receiving of characters.

Adapters 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	
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



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

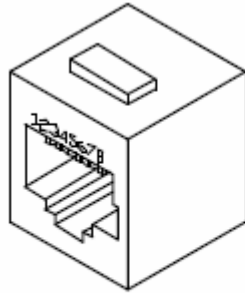


Fig. 1: RJ-45 Receptacle

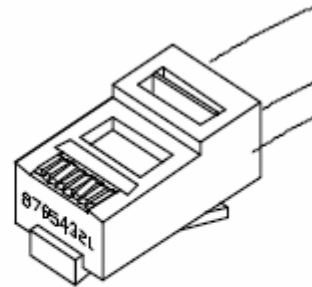


Fig. 2: RJ-45 Plug