

QUICK START: F Series, F-RPC Series

by Bay Technical Associates

The F-Series is a console control unit that allows multiple concurrent telnet sessions.

Installation

The F-Series or F-RPC Series comes with optional module choices such as the F62, F72 host module, and F74 input/output peripheral module. This manual will be divided into sections that go into brief detail about each module listed above. The samples used for the below is the F5-RPC, with the F62 module. The actual screen displays of your unit may vary by model.

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

- F-Series or F-RPC Unit
- F62 or F72 Network Interface Host Controller
- F74 DAC Module(s)
- RJ08X007 Rolled Flat Ribbon Cable
- 9FRJ45PC-7 (DB-9 to RJ45 Adapter)

Serial Setup

- Connect the *9FRJ45PC-7* 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

F62 - Ethernet & RS232 module for F SERIES chassis with SNMP

Configuration

When the unit is plugged in and turned on, the unit goes through the initialization phase. After the initialization phase, if you do not get a prompt, press Enter, also known as a <CR>² carriage return to initiate the prompt. For the F62, you will need to type in the host module (f62) to bring up the Device menu. 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>. You will be brought to the Configuration menu as shown in *Figure 2*.

Figure 1

```

F-Series - F 1.07.4      2003 Bay Technical Associates
Module Name: F62

Module: 1
Network Interface Inoperative - No network access available
Attention Character: ;
Device A      <3 ,1>.....1
Device B      <3 ,2>.....2
Device C      <3 ,3>.....3
Device D      <3 ,4>.....4
Device A      <4 ,1>.....5
Device B      <4 ,2>.....6
Device C      <4 ,3>.....7
Device D      <4 ,4>.....8
F5-RPC        <5 ,1>.....9
Status.....S
Configure.....C
Unit Reset....RU
Logout.....T
Enter Request :

```

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/tterm23.zip>.

² <CR> = HRT or ENTER. This can also take you back to the previous screen.

Figure 2

Enter Request :c

Module Configuration Menu
Main Board Rev. F000.13

Selection	Slot	Type	Revision	Module Name
1	1	F62	F1.07.4	F62
2	3	F74	F0.63	
3	4	F74	F0.63	
4	5	RPC	F0.60	F5-RPC

X,CR to exit

Enter Request :

Unit Configuration

At the prompt, type the number associated with the module you want to access, followed by a <CR>. You will be taken to the module's configuration window where you will be able to edit any of the information listed in *Figure 3*. The following pages define each line of the configuration menu. To access the Network Port Configuration to set up the Network settings, go to **Page 4** for instructions.

Figure 3

Enter Request :1

Copyright(C) Bay Technical Associates 2003
F62 Ethernet Host Module
Revision 1.07.4 Module 1
Hardware 1.02 Serial number 600148

```

Status.....1
Serial Port Configuration.....2
Serial Port Device Name.....3
Attention Character.....4
Disconnect Timeguard.....5
Connect Port ID Echo.....6
Login Setup.....7
Network Port Configuration.....8
Module Name.....9
SNMP Configuration.....10
RPC Management.....11
Web Server Configuration.....12
Exit.....X,CR

```

Enter Request :

Status

Used to view the status of the installed modules, modem setup, login setup, assigned user ports and associated information by issuing a series of carriage returns. Shown in *Figure 4*.

Figure 4

Enter Request :1

Installed Modules :01,03,04,05

```

Attention Character is ..... ;
Disconnect Time Guard is..... Disabled
Port ID Echo is..... Disabled
Module Name is..... F62

```

```

Network Connectivity & Login Configuration:
Ethernet Address..... 00:C0:48:09:28:54
IP Address..... 0.0.0.0
Subnet Mask..... 0.0.0.0
Default Gateway..... 0.0.0.0
Inactivity Timeout (mins)..... Disabled
Break Length (msecs)..... 350
Telnet..... Enabled
SSH..... Enabled
DHCP..... Enabled
Telnet login prompt is..... Enabled
Serial login prompt is..... Disabled
Direct Port Connection is..... Disabled

```

Strike ENTER to continue

Serial Port Configuration

F-Series host modules translate data for devices using different serial configurations. Shown in *Figure 5*.

The Baud Rate, Word Size, Stop Bits, and Parity cannot be configured on this module.

Figure 5

```
Enter Request :2
serial port configuration is fixed to 9600, 8, N, 1
Strike ENTER to continue
```

Serial Port Device Name

Select the port you want to rename and press ENTER. Type what you wish to rename the port. Shown in *Figure 6*.

Figure 6

```
Enter Request :3
Current device name: EIA-RS232
Enter device name for serial port <<1 - 16 char., CR to end> :
```

Attention Character

Attention Character = semi-colon (;), by pressing the attention character key 5 consecutive times, will return back to the main status menu. This menu will allow you to change the value of the attention character for the F series, so as not to negate the access menu. Shown in *Figure 7*.

Figure 7

```
Enter Request :4
Attention Character is..... ;
Enter Attention Character :■
```

Disconnect Timeguard

This feature provides reliable binary data transmission by providing a one-second “timeguard” after the F-Series receives the attention character, eliminating unwanted port disconnection. Shown in *Figure 8*.

Figure 8

```
Enter Request :5
Disconnect Time Guard is..... Disabled
Enable ? (Y/N), CR for no change) :
```

Connect Port ID Echo

This identifies the module number and port number you are connected to. To change; select 5 followed by a <CR>. To Enable select *Y* followed by a <CR> and you will see *Figure 9*.
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.

Figure 9

```
Enter Request :6
Port ID Echo is.....Disabled
Disable Port ID Echo.....1
Use Module, Port Number.....2
Use Device Name.....3
Exit.....X,CR
Enter Request :
```

Login Setup

This option allows user interface and control of all login options through the menu in *Figure 10*. Login Headers are enabled by default. Each line of this menu is defined below.

Figure 10

Enter Request :7

```

Access Control.....1
Manage Users.....2
Direct Port Connection.....3
Exit.....X,CR

```

Enter Request :

Access Control

This will allow you to access the menu where you can modify such options as prompting for usernames and passwords for both network and serial port access.

Manage Users

This will allow access to the menu that allows the administrator to change user passwords or add new users. Up to 19 users plus an administrator allowed. Usernames are case sensitive and alphanumeric.

Direct Port Configuration

This will allow access to the menu to allow the user to be connected directly to an F serial port, as determined by the TCP port, starting at TCP port 7001.

Network Port Configuration

This is where you can access the menu to change such options as the IP Address, Subnet Mask, Gateway, Bootp, DHCP, and Telnet; all of which are necessary during initial startup. The *Inactivity Timeout* allows you to enable/disable whether the firmware ends your session or “times out.” The default is 1 hour, but when disabled there is no set time out. Disabling the *Carriage Return Translation* allows you to bypass all unnecessary carriage returns, and it will send you straight to the next “end of line.” The *Bootp, DHCP, and Telnet* options allow you to enable or disable these options. Shown in *Figure 11*.

Figure 11

Enter Request :8

Network setup :

```

Ethernet Address..... 00:C0:48:09:28:54
IP Address..... 0.0.0.0
Subnet Mask..... 0.0.0.0
Default Gateway..... 0.0.0.0

```

Connection Inactivity Timeout (mins): Disabled

Carriage Return Translation: Disabled

Break Length (msecs): 350

DHCP is Enabled Telnet is Enabled SSH is Enabled

SSH host keys are set to factory default

```

IP Address.....1
Subnet Mask.....2
Gateway Address.....3
Inactivity Timeout.....4
Carriage Return Translation.....5
Break Length.....6
DHCP Enable/Disable.....7
Telnet Enable/Disable.....8
SSH Enable/Disable.....9
SSH Host Key Generation.....10
Enable Firmware Upgrade.....11
Enable SSL Cert Upload.....12
Exit.....X,CR

```

Enter Request :

Module Name

Allows for an individual naming scheme when viewed at startup. Shown in *Figure 12*.

Figure 12

Enter Request :9

Module Name is: F62

Enter Module Name <32 chars max>.

SNMP Configuration

Depending on the firmware, *SNMP Configuration* allows the user to control whether or not a user has Read/Write access or Read access only. It also allows users to control which IP addresses are allowed to be a host trap, and simply whether to enable or disable the entire SNMP function. Shown in *Figure 13*.

Figure 13

```
Enter Request :10
SNMP Trap Host 1 Address.....1
SNMP Trap Host 2 Address.....2
SNMP Trap Host 3 Address.....3
SNMP Trap Host 4 Address.....4
SNMP Read-Only Community.....5
SNMP Read-Write Community.....6
SNMP Enable.....7
Exit.....X,CR
```

Enter Request :

RPC Management

Allows you to set the temperature, over voltage and under voltage threshold alarms for the unit. Shown in *Figure 14*.

Figure 14

Enter Request :11

```
Host-controlled RPC Feature Configuration
Temperature Alarm Threshold.....1
Under Voltage Alarm Threshold.....2
Over Voltage Alarm Threshold.....3
```

Enter Request :

Web Server Configuration

You can Enable or Disable Web Server capabilities in this menu. Such capabilities include: Web Login, Web Secure Login, and Web Login Activity Timeout. Shown in *Figure 15*.

Figure 15

```
Enter Request :12
Web Enable.....1
Web Login Enable.....2
Web Secure Login Enable.....3
Web Login Activity Timeout.....4
Exit.....X
```

Enter Request :

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

F72 - Ethernet & RS232 module for F SERIES chassis**Unit Configuration**

Once connected you will see the menu screen as shown in *Figure 16*. When prompted at the unit's startup menu select "C" followed by a <CR>. You will be taken to the module's configuration window where you will be able to edit any of the information listed in *Figure 17*. The following pages define each line of the configuration menu.

Figure 16

```
F72 Series - F02.10C <C> 2001 Bay Technical Associates
Module Name: F72
```

```
Module: 2
Attention Character: ;
Configure.....C
Status.....S
I/O Modules Reset.....RM
Unit Reset.....RU
Logout.....T
```

Enter Request :

Figure 17

```
Copyright(C) Bay Technical Associates 2001
F72 F Bus DAC Series - Telnet Host Module
Revision F.02.10C Kernel K.2.01A
Core C.2.00D Hardware H.1.00
Module 2
```

```
Status.....1
Serial Port Configuration.....2
Port Device Name.....3
Attention Character.....4
Disconnect Timeguard.....5
Connect Port ID Echo.....6
Login Setup.....7
Network Port Configuration.....8
Module Name.....9
Upgrade Firmware.....10
Dial Out Enable.....11
AutoRestore.....12
Exit.....X,CR
```

Enter Request :

Status

Used to view the status of the installed modules, modem setup, login setup, assigned user ports and associated information by issuing a series of carriage returns. Shown in *Figure 18*.

Figure 18

```

Enter Request :1
Installed Modules :02

Attention Character is .....;
Disconnect Time Guard is.....Disabled
Port ID Echo is.....Disabled
Module Name is.....F72

Network Setup :
Ethernet Address.....00.C0.48.00.00.00
IP Address.....0.0.0.0
Subnet Mask.....0.0.0.0
Gateway.....0.0.0.0
Inactivity Timeout (mins).....Disabled
Break Length (msecs).....350
Telnet.....Enabled
DHCP.....Disabled
Bootp.....Enabled
Dial Out.....Disabled
Login Setup :
Header is.....Enabled
AutoRestore is.....Enabled
Direct Port Connection is.....Disabled

Strike ENTER to continue■
    
```

Serial Port Configuration

F-Series host modules translate data for devices using different serial configurations. Shown in *Figure 19*.

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

Figure 19

```

Enter Request :2
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|Port| Device | Device | Baud | Word | Stop | Parity |Xon/ Xoff|LineDrive|
|:|:| Type | Name | Rate | Size | Bits | |:| |:| |:| |:| |:|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | RS-232 | EIA-232 | 9600 | 8 | 1 | None |Off| Off|Low|Low|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

Save.....1 Parity.....5
Baud Rate..2 Xon/Xoff.....6
Word Size..3 RTS Line Driver...7
Stop bits..4 DTR Line Driver...8

Enter Request :■
    
```

Port Device Name

Select the port you want to rename and press ENTER. Type what you wish to rename the port. Shown in *Figure 20*.

Figure 20

```

Enter Request :3
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|Port| Device | Device | Baud | Word | Stop | Parity |Xon/ Xoff|LineDrive|
|:|:| Type | Name | Rate | Size | Bits | |:| |:| |:| |:| |:|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | RS-232 | EIA-232 | 9600 | 8 | 1 | None |Off| Off|Low|Low|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

Enter Port Device Name (Max. 16 characters):
or press ENTER for no change .....:
    
```

Attention Character

Attention Character = semi-colon (;) by pressing the attention character key 5 consecutive times, will return back to the main status menu. This menu will allow you to change the value of the attention character for the F series, so as not to negate the access menu. Shown in *Figure 21*.

Figure 21

```

Enter Request :4
Attention Character is..... ;
Enter Attention Character :■

```

Disconnect Timeguard

This feature provides reliable binary data transmission by providing a one-second “timeguard” after the F-Series receives the attention character, eliminating unwanted port disconnection. Shown in *Figure 22*.

Figure 22

```

Enter Request :5
Disconnect Time Guard is..... Disabled
Enable ? (Y/N), CR for no change) :

```

Connect Port ID Echo

This identifies the module number and port number you are connected to. To change; select 5 followed by a <CR>. To Enable select *Y* followed by a <CR> and you will see *Figure 23*.
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.

Figure 23

```

Enter Request :6
Port ID Echo is.....Disabled
Disable Port ID Echo.....1
Use Module, Port Number.....2
Use Device Name.....3
Exit.....X,CR
Enter Request :

```

Login Setup

This option allows user interface and control of all login options through the menu in *Figure 24*. Login Headers are enabled by default. Each line of this menu is defined below.

Figure 24

```

Enter Request :7
Access Control.....1
Manage Users.....2
Direct Port Connection.....3
Exit.....X,CR
Enter Request :

```

Access Control

This will allow you to access the menu where you can modify such options as prompting for usernames and passwords for both network and serial port access.

Manage Users

This will allow access to the menu that allows the administrator to change user passwords or add new users. Up to 19 users plus an administrator allowed. Usernames are case sensitive and alphanumeric.

Direct Port Configuration

This will allow access to the menu to allow the user to be connected directly to an F serial port, as determined by the TCP port, starting at TCP port 7001.

Network Port Configuration

This is where you can access the menu to change such options as the IP Address, Subnet Mask, Gateway, Bootp, DHCP, and Telnet; all of which are necessary during initial startup. The *Inactivity Timeout* allows you to enable/disable whether the firmware ends your session or “times out.” The default is 1 hour, but when disabled there is no set time out. Disabling the *Carriage Return Translation* allows you to bypass all unnecessary carriage returns, and it will send you straight to the next “end of line.” The *Bootp, DHCP, and Telnet* options allow you to enable or disable these options. Shown in *Figure 25*.

Figure 25

```
Enter Request :8
Network Configuration

IP Address:  0.0.0.0          Subnet Mask: 0.0.0.0
Gateway:    0.0.0.0
Ethernet Address: 00.C0.48.00.00.00
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
Subnet Mask.....2
Gateway Address...3
Inactivity Timeout...4
Carriage Return Translation...5
Break Length.....6
Bootp.....7
DHCP.....8
Telnet.....9
Exit.....X,CR
```

Enter Request :

Module Name

Allows for an individual naming scheme when viewed at startup. Shown in *Figure 26*.

Figure 26

```
Enter Request :9
Module Name is: F72
```

```
Enter Module Name <32 chars max>.
: █
```

Upgrade Firmware

Allows for a specific user to set up the user name and password to flash upgrade the firmware on the F72 module through an FTP client. This setup prevents anyone from making hardware changes that may damage the module without prior authorization. Shown in *Figure 27*.

Figure 27

```
Enter Request :10

Upgrade Firmware.....1
Set FTP User Name.....2
Set FTP User Password.....3
Exit.....X,CR
```

Enter Request :

Dial Out Enable

Allows the user connected to an F72 to have access to a modem through the F74 module. Shown in *Figure 28*.

Figure 28

```
Enter Request :11
Dial out is..... Disabled
Enable ? (Y/N), CR for no change) :█
```

AutoRestore

Allows to unit to reset internally to prevent inadvertent lock ups of the module. This is transparent to the user and does not affect functionality of the module. Shown in *Figure 29*. Default is Enabled.

AutoRestore, also known as *Active Restore*, acts like a watchdog. It executes a subroutine and forces a reset of the pathway when you have been inactive for too long. If you are logged on for too long or the Ethernet connection freezes, the subroutine will reset the connection and make it an open link. If an active session is idle for x amount of time then the amount of time greater than x and less than y, the session resets. If at any time the amount of elapsed time since the pathway became idle is equal to y, then the pathway resets. (Default: x=1hr; y=2hrs.)

Figure 29

```
Enter Request :12
AutoRestore is..... Enabled
Enable ? (Y/N), CR for no change) :█
```

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

F74 - 4 port RS232 module for F SERIES chassis

The F74 is a 4-port high speed EIA-232 peripheral communications module that provides bi-directional communications between the host device and a selected peripheral device connected to a F74 port.

Unit Configuration

Once connected you will see the menu screen as shown in *Figure 30*. When prompted at the unit's startup menu select "C" followed by a <CR>. You will be taken to the module's configuration window where you will be able to edit any of the information. The following pages define each line of the configuration menu.

Figure 30

```

Module Configuration Menu
Main Board Rev. F000.13

Selection  Slot  Type  Revision  Module Name
  1         2    F72   F02.10C   F72
  2         3    F74   F0.63
  3         4    F74   F0.63
  4         5    F74   F0.63
  5         6    F74   F0.63
X,CR to exit

Enter Request :2

F74 Series
(C) 2001 by BayTech
F0.63.02
Checksum Lower Block: E334 Upper Block: F000

1) ...Status
2) ...Configure Serial Ports
3) ...Change Module Name
4) ...Setup Dialout/Mode Ports

Enter Request:

```

Status

Used to view the status of the installed modules, modem setup, login setup, assigned user ports and associated information by issuing a series of carriage returns. Shown in *Figure 31*.

Figure 31

```

Enter Request: 1

-----
|          Port          | BAUD |Word|Parity|Stop|Handshaking|      Idle      |
|          Name         | Rate |Size|      |Bits|Tx  | Rx  | RTS | DTR |
-----
1) ...Device A         | 9600 | 8  | None | 1  | CTS | DTR | Low | Low |
2) ...Device B         | 9600 | 8  | None | 1  | CTS | DTR | Low | Low |
3) ...Device C         | 9600 | 8  | None | 1  | CTS | DTR | Low | Low |
4) ...Device D         | 9600 | 8  | None | 1  | CTS | DTR | Low | Low |
-----

|          Port Name    | Dialout Module | Mode |
-----
1) ...Device A         | Disable        | EIA-232 |
2) ...Device B         | Disable        | EIA-232 |
3) ...Device C         | Disable        | EIA-232 |
4) ...Device D         | Disable        | EIA-232 |
-----

Hit any key to continue
█

```

Serial Port Configuration

F-Series host modules translate data for devices using different serial configurations, which are user programmable. Shown in *Figure 32*. The Baud Rate, Word Size, Stop Bits, and Parity can all be configured through the serial port using the self-explaining menus. Xon/Xoff, RTS Line Driver, and DTR Line Driver cannot be configured using the serial port; they must be configured using the phone line.

Factory default Serial Port Configuration is 9600 baud rate, 8 bit word size, no parity, 1 stop bit. Handshaking is set for CTS and DTR, and the Idle States are set to Low.

Figure 32

Enter Request: 2

	Port Name	BAUD Rate	Word Size	Parity	Stop Bits	Handshaking Tx	Handshaking Rx	Idle RTS	Idle DTR
1)	Device A	9600	8	None	1	CTS	DTR	Low	Low
2)	Device B	9600	8	None	1	CTS	DTR	Low	Low
3)	Device C	9600	8	None	1	CTS	DTR	Low	Low
4)	Device D	9600	8	None	1	CTS	DTR	Low	Low

Enter Port Number(1-4,X): 1

	Port Name	BAUD Rate	Word Size	Parity	Stop Bits	Handshaking Tx	Handshaking Rx	Idle RTS	Idle DTR
1)	Device A	9600	8	None	1	CTS	DTR	Low	Low

- | | | | |
|----|-----------|----|-----------------------|
| 1) | Port Name | 6) | Transmit Handshaking |
| 2) | Baud Rate | 7) | Receive Handshaking |
| 3) | Word Size | 8) | RTS Signal Idle State |
| 4) | Parity | 9) | DTR Signal Idle State |
| 5) | Stop Bits | X) | Exit |

Enter Request: █

Change Module Name

This is used for identification purposes while in configuration mode, which can be programmed to be any ASCII character string up to 23 characters. Type what you wish to rename the module. Shown in *Figure 33*.

Figure 33

Enter Request: 3

Current Module Name:

Modify (Y/N)? y

Enter New Module Name(maximum 23 characters):

Setup Dialout/Mode Ports

Allows user to select the module port to dial out from and what mode to connect with. Factory defaults are Disabled and EIA-232. Shown in *Figure 34*.

Figure 34

	Port Name	Dialout Module	Mode
1)	Device A	1	EIA-232
2)	Device B	Disable	EIA-232
3)	Device C	Disable	EIA-232
4)	Device D	Disable	EIA-232

Enter Port Number<1-4,X>: 1

- 1) ... Setup Dialup
- 2) ... Select Mode

Enter Request<1-2,X>: 2

- 1) ... EIA-232
- 2) ... RPC-SNMP

Enter Request<1-2,X>:

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

F-RPC**RPC Unit**

If you are using an F-RPC unit, access to the RPC portion of the unit can be reached by selecting the number that corresponds with the RPC unit number. Shown in *Figure 35*. The RPC unit can be controlled through simple commands of On, Off, and Reboot through the menu shown in *Figure 36*.

Figure 35

```

F-Series - F 1.07.4      2003 Bay Technical Associates
Module Name: F62

Module: 1
Network Interface Inoperative - No network access available
Attention Character: ;
Device A      (3 ,1).....1
Device B      (3 ,2).....2
Device C      (3 ,3).....3
Device D      (3 ,4).....4
Device A      (4 ,1).....5
Device B      (4 ,2).....6
Device C      (4 ,3).....7
Device D      (4 ,4).....8
F5-RPC        (5 ,1).....9
Status.....S
Configure.....C
Unit Reset....RU
Logout.....T
Enter Request :
```

Figure 36

```

F5-RPC Series
(C) 2002 by BayTech
F1.01

Option(s) Installed:
True RMS Current
Internal Temperature
True RMS Voltage

Input Power Source: 1

True RMS Voltage 1: 113.8 Volts
True RMS Voltage 2: 114.1 Volts

Average Power:      0 Watts
True RMS Current:   0.0 Amps
Maximum Detected:   0.0 Amps

Internal Temperature: 29.5 C

1)...Outlet 1      : On
2)...Outlet 2      : On
3)...Outlet 3      : On
4)...Outlet 4      : On
5)...Outlet 5      : On
6)...Outlet 6      : On
7)...Outlet 7      : On
8)...Outlet 8      : On
9)...Fiber Switch Hub: On

Type "Help" for a list of commands
R5-RPC>
```

Power Controller Configuration: The management of users and outlets.

RPC Configuration: Type *config* followed by a <CR>. This command takes you to *Figure 37*. This screen will enable you to edit any of the information listed.

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

Figure 37

Type "Help" for a list of commands

```
DS-RPC>config
Unit ID: D-RPC

1>...Manage Users
2>...Change Outlet Name
3>...Enable/Disable Confirmation
4>...Enable/Disable Status Menu
5>...Change Unit ID
6>...Change Alarm Threshold
X>...Exit
Enter Request: █
```

Manage Users: The Manage Users menu shown in *Figure 38* allows the user to add, delete, or edit usernames. This menu also allows the administrator to edit the level of outlet access the user is granted.

Figure 38

Enter Request: 1

```
-----
|      User      | Assigned Outlets |
|                | 1 | 2 | 3 | 4 |
|-----|-----|
A>...Add User
D>...Delete User
R>...Rename User
```

Enter user number to assign Outlets, A, D or R.

User Access: Once you add a user, you can grant/restrict access to outlets or outlet control.

To add multiple outlets under the user name, use the following nomenclature: X,X,X,X. Where "X" is the number of the outlet you wish to assign.

Any changes being made do not take affect until the selected user is logged in.

To switch a user, you must log out and log back in under the new user name.

Change Outlet Name: Allows the administrator to change the name of the outlets.

Enable/Disable Confirmation: Enables/Disables the confirmation of choices. Example, "Turn off all outlets [Y/N]?"

Enable/Disable Status Menu: Enables/Disables the status screen. Example, the screen with the Amperage and Voltage readings is shown when you first log on to the unit.

Change Unit ID: Allows the user to change the name of the unit. Defaulted as something similar to BT F5-RPC. Allows the user to personalize or customize name or location, up to 31 alphanumeric characters.

Change Alarm Threshold: The Alarm Threshold is the value set that sounds the amperage alarm when it reaches or exceeds the amperage value indicated.

User Access: Once you add a user, you can grant/restrict access to outlets or outlet control.

To add multiple outlets under the user name, use the following nomenclature: X,X,X,X. Where "X" is the number of the outlet you wish to assign.

Any changes being made do not take affect until the selected user is logged in.

To switch a user, you must log out and log back in under the new user name.

Password: Type *password* followed by a <CR>. Shown in *Figure 39*. This password is for the controller part of the unit.

Figure 39

Type "Help" for a list of commands

```
DS-RPC>password
Enter new Password:
Re-Enter new Password:
Type "Help" for a list of commands

DS-RPC>
```

Help Menu: At the Status Menu shown in *Figure 40*, type *Help* followed by a <CR> to view the line commands for the F-RPC's.

Figure 40

R5-RPC>help

```
On n <cr>      --Turn on an Outlet, n=0,1...8,all
Off n <cr>     --Turn off an Outlet, n=0,1...8,all
Reboot n <cr>  --Reboot an Outlet, n=0,1...8,all
Status <cr>    --RPC-18 Status
Config <cr>    --Enter configuration mode
Source n <cr>  --Select the input power source, n=1 or 2
Lock n <cr>    --Locks Outlet(s) state, n=0,1...8,all
Unlock n <cr>  --Unlock Outlet(s) state, n=0,1...8,all
Current <cr>   --Display True RMS Current
Clear <cr>     --Reset the maximum detected current
Temp <cr>      --Read current temperature
Voltage <cr>   --Display True RMS Voltage
Logout <cr>    --Logoff
Logoff <cr>    --Logoff
Exit <cr>      --Logoff
Password <cr>  --Changes the current user password
Whoami <cr>    --Displays the current user name
Unitid <cr>    --Displays the unit ID
Help <cr>     --This Command
```

Type "Help" for a list of commands

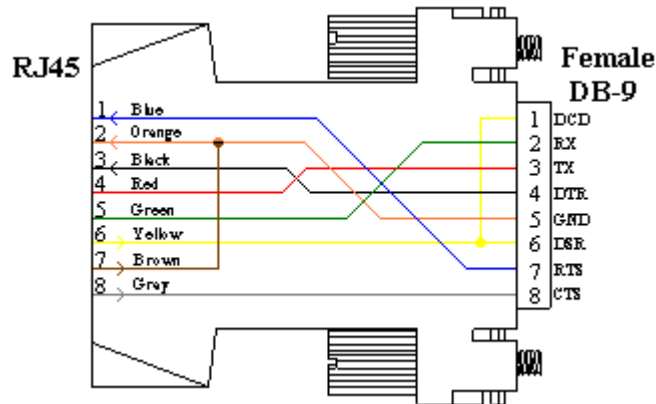
R5-RPC>

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 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	

9FRJ45PC-7 or PC-07



RJ08X007

