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Revision

PLANET Web Smart Media Converter Chassis User's manual

MODEL: MC-1600MR / MC-1600MR48

REVISION: 1.0 (MARCH.2007)

Part No.: EM-MC1600M_v1.0 (2080-AA3450-000)

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1. INTRODUCTION

1.1 Package Contents

Thank you for purchasing PLANET Web Smart Media Converter Chassis, the Web Smart Media Converter Chassis package shall contain following contents:

Check the contents of your package for following parts:

- Web Smart Media Converter Chassis with one power supply installed x1
- User's manual CD x1
- Quick Installation Guide x1
- RS-232 console cable x1
- Power Cord x1
- Two Rack-Mounting Brackets with attachment screws x1

If any of these pieces are missing or damaged, please contact your dealer immediately, if possible, retain the carton including the original packing material, and use them against to repack the product in case there is a need to return it to us for repair.

1.2 How to Use This Manual

The Web Smart Media Converter Chassis User's Manual is structured as followings:

Section 2, Hardware Installation

It explains the functions of Web Smart Media Converter Chassis and how to install the Web Smart Media Converter Chassis.

Section 3, Web Smart Media Converter Chassis Management

It contains information about how to manage the Web Smart Media Converter Chassis.

Section 4, Console Interface

It contains information about the smart function from the console interface of Web Smart Media Converter Chassis.

Section 5, Web Management

It contains information about the smart function from the Web interface of Web Smart Media Converter Chassis.

Section 6, Link Pass Through Function

It contains detail explanation about the Link Pass Through function.

Section 7, Troubleshooting

It contains troubleshooting guide of Web Smart Media Converter Chassis.

Appendix A

It contains cable information of Web Smart Media Converter Chassis.

In the following section, the term "Web Smart Media Converter Chassis" means the MC-1600MR and MC-1600MR48.

1.3 About the Web Smart Media Converter Chassis

The Web Smart Media Converter Chassis provides one management module and 16-Slots for optional FST-8/ GST-7 series Fast / Gigabit Ethernet Smart Media converter installation, with hot-swappable feature and the redundant link function to avoid entire network down time. Its management function allows network administrators to monitor the slide in connection status of converter module and configures the converter module via local console port and remote Web interface.

The MC-1600MR equip with one 100~240V AC power supply unit and MC-1600MR48 equip with one DC -48V power supply unit on its standard package, both MC-1600MR and MC-1600MR48 provide one spare power supply unit slot for option redundant power supply installation. A redundant power supply is also provided to enhance the reliability with options of either 100~240V AC power supply unit or DC -48V power supply unit.

1.4 Features

- ♦ High quality 19"Rack-Mountable Chassis installation
- Supports up to sixteen hot-swappable slide-in modular media converter
- ♦ One 10/100Mbps Fast Ethernet port and one RS-232 port for management
- ◆ Two power slots at rear panel for redundant power support with options of 100~240V AC or -48V DC supply
- Reduces the effort of converter's maintenance and management
- ◆ LED indicators for system and fan status, up to two fans installation of increased air-flow for system cooling
- ◆ Supports the PLANET smart Fast Ethernet and Gigabit Ethernet Media Converter FST-8 and GST-7 series
- ♦ Auto-MDI / MDI-X for 10/100Base-TX port
- Manageable through local console and remote Web interface
- ◆ EMI standards comply with FCC, CE class A

1.5 Specification

Model	MC-1600MR	MC-1600MR48
Hardware Specification		
Dimension (W x D xH)	440 x 88 x 350mm, 2U	
Slot	16 open converter slots (115 x 80 x 26mm,	W x D x H)
	2 power slot s (one fixed, one vacant*)	
Power requirement	100-240V AC, 1.5A, 50-60Hz	DC -48V, 2A
Power Output	5V DC per slot, 2A maximum	
Power consumption	8.4 Watts / 28BTU (1 x power supply , not include converters)	5.3 Watts / 18BTU (1 x power supply, not include converters)
	120 Watts / 409BTU (Full loading)	96 Watts / 327 BTU (Full loading)
Operate environment	0~50 Degree C, 5%~90%RH	
Storage environment	-20~70 Degree C, 5%~90%RH	
Emission	FCC Class A, CE mark	
Management Interface		
Standards	IEEE 802.3 10Base-T Ethernet, IEEE 802.3u 100Base-TX Fast Ethernet, IEEE 802.3x Flow control	
Fixed interface	10/100Base-TX port , RS-232 console port x1, Reset button x1	
Speed	Ethernet: 10/20Mbps for half / full-duplex, Fast Ethernet: 100/200Mbps for half / full-duplex	
LED indicator	System: MGM, Console: LNK/ACT, PWR ON x2, PWR FAIL x2, FAN FAIL x2	

Remark: The device comes with one build in power module, to install the second power module into the vacant power slot, please consult your local dealer.

2. HARDWARE INSTALLATION

This section describes the functionalities of MC-1600MR / MC-1600MR48 components and guides how to install the device on the desktop or shelf. Basic knowledge of networking is assumed; please read this chapter completely before continuing installs the Web Smart Media Converter Chassis.

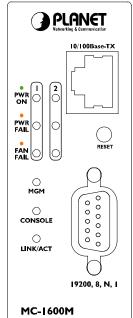
2.1 Front Panel

The Web Smart Media Converter Chassis provides one management module and 16-Slots for optional FST-8/ GST-7 series Fast / Gigabit Ethernet Smart Media converter installation.



Figure 2-1: Web Smart Media Converter Chassis front panel

The LED indicators of the management module include power on, power fail, fan fail, MGM, Console and LNK/ACT. The management module front panel in Figure 2-2 appears and the LED indicator in table 2-1 appears.



LED Indicators

LED	Color	LED Status	Function
PWR ON	Green	Lights On	Indicate that the device has power.
		Lights Off	Indicate that the device not receive power.
PWR FAIL	Amber	Lights On	Indicate that power is inserted and failed to work.
		Lights Off	Indicate that power is inserted and work normal.
FAN FAIL	Amber	Lights On	Indicate that fan is failed to work.
		Lights Off	Indicate that fan is work normally.
MGM	Green	Light blink	Indicate that CPU is working.
		Light Off	Indicate that CPU is not working.
CONSOLE	Green	Light blink	Indicate that console port is working.
		Light Off	Indicate that console port is not working.
LNK/ACT	Green	Light On	The link through that port is successfully established.
		Light Off	The link through that port is not established or run at 10Mbps half / full duplex mode.

Table 2-1: LED Indicators from Management module front panel

Figure 2-2: Management module front panel



Press the RESET button for 5 seconds, the Web Smart Media Converter Chassis will back to factory default mode; the entire configuration will be erased.

2.2 Rear Panel

The MC-1600MR equip with one 100~240V AC power supply unit and MC-1600MR48 equip with one DC -48V power supply unit on its standard package, both MC-1600MR and MC-1600MR48 provide one spare power supply unit slot for option redundant power supply installation. A redundant power supply is also provided to enhance the reliability with options of either 100~240V AC power supply unit or DC -48V power supply unit.



Figure 2-3: Rear panel of Web Smart Media Converter Chassis

Install and remove the power supply unit

To install a power supply unit to Web Smart Media Converter Chassis, please fasten the hand screw clockwise and slide in the power supply unit to the Web Smart Media Converter Chassis.

To remove a power supply unit out the Web Smart Media Converter Chassis, please loose the hand screw counter clockwise and pull out the power supply unit from the Web Smart Media Converter Chassis.



Figure 2-4: Install and remove the power supply unit of Web Smart Media Converter Chassis

Power Notice:

- The device is a power-required device, it means, it will not work till it is powered. If your networks should active all the time, please consider using UPS (Uninterrupted Power Supply) for your device. It will prevent you from network data loss or network downtime.
- 2. In some area, installing a surge suppression device may also help to protect your Web Smart Media Converter Chassis from being damaged by unregulated surge or current to the Web Smart Media Converter Chassis.

2.3 Web Smart Media Converter Chassis Installation

The chapter describes how to install optional FST-8/ GST-7 series Fast / Gigabit Ethernet Smart Media converter into your Web Smart Media Converter Chassis, please read the following topics and perform the procedures in the order being presented.

To install your Web Smart Media Converter Chassis on a desktop or shelf, simply complete the following steps.

2.3.1 Desktop Installation

To install a Web Smart Media Converter Chassis on a desktop or shelf, simply completed the following steps:

- Step 1: Attached the rubber feet to the recessed areas on the bottom of the Web Smart Media Converter Chassis.
- Step 2: Place the Web Smart Media Converter Chassis on a desktop or shelf near an AC/DC power source.
- Step 3: Keep enough ventilation space between the Web Smart Media Converter Chassis and the surrounding objects.

Notice:

When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 1, Section 5, Specification.

Step 4: Connect your Web Smart Media Converter Chassis to network administrator stations.

- **A.** Connect one end of a standard network cable to the 10/100 RJ-45 port on the management module front panel of the Web Smart Media Converter Chassis.
- B. Start to manage the Web Smart Media Converter Chassis through the Microsoft Internet Explorer and etc.

Notice:

Connection to the Web Smart Media Converter Chassis requires UTP Category 5 network cabling with RJ-45 tips. For more information, please see the Cabling Specification in **Appendix A**.

Step 5: Supply power to the Web Smart Media Converter Chassis.

- A. Connect one end of the power cable to the Web Smart Media Converter Chassis.
- **B.** Connect the power plug of the power cable to a standard wall outlet then power on the Web Smart Media Converter Chassis.

When the Web Smart Media Converter Chassis receives power, the Power LED should remain solid Green.

2.3.2 Rack Mounting

To install the Web Smart Media Converter Chassis in a 19-inch standard rack, follow the instructions described below.

- Step 1: Place your Web Smart Media Converter Chassis on a hard flat surface, with the front panel positioned towards your front side.
- Step 2: Attach a rack-mount bracket to each side of the Web Smart Media Converter Chassis with supplied screws attached to the package. Figure 2-5 shows how to attach brackets to one side of the Web Smart Media Converter Chassis.

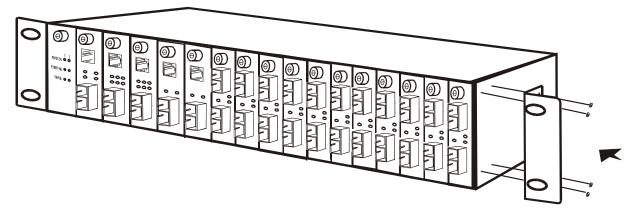


Figure 2-5 Attaching the brackets to the Web Smart Media Converter Chassis

Caution:

You must use the screws supplied with the mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

- Step 3: Secure the brackets tightly.
- Step 4: Follow the same steps to attach the second bracket to the opposite side.
- Step 5: After the brackets are attached to the Web Smart Media Converter Chassis, use suitable screws to securely attach the brackets to the rack, as shown in Figure 2-6.

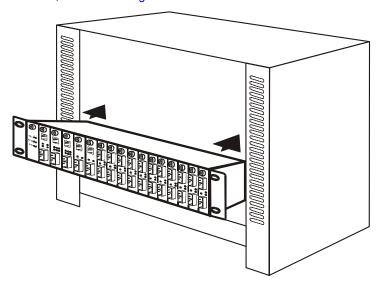
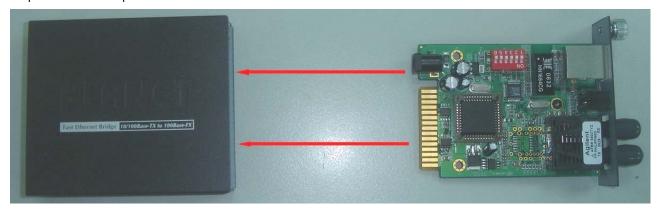


Figure 2-6 Mounting the Web Smart Media Converter Chassis in a Rack

Step 6: Proceed with the steps 4 and steps 5 of section **2.3.1 Desktop Installation** to connect the network cabling and supply power to your Web Smart Media Converter Chassis.

2.3.3 Slide Media Converter board into MC-1600MR /MR48 Chassis Installation

Step 1: unscrew and pull out the FST-80x /GST-70x Media Converter board.



Step 2: Remove a blank faceplate from an empty expansion slot on the front of the chassis. The FST-80x /GST-70x Media Converter board can be installed in any expansion slot.



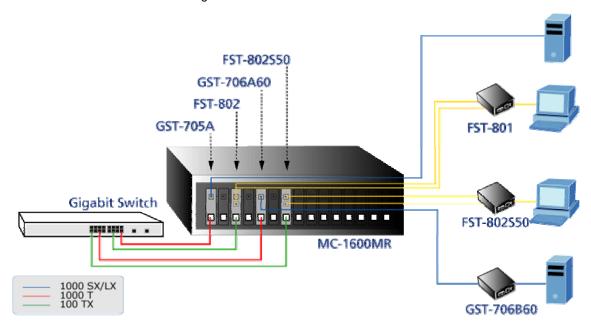
Step 3: Slide the FST-80x /GST-70x Media Converter board into the expansion slot, aligning it with the guide rails, until it firmly connects to the chassis' backplane.



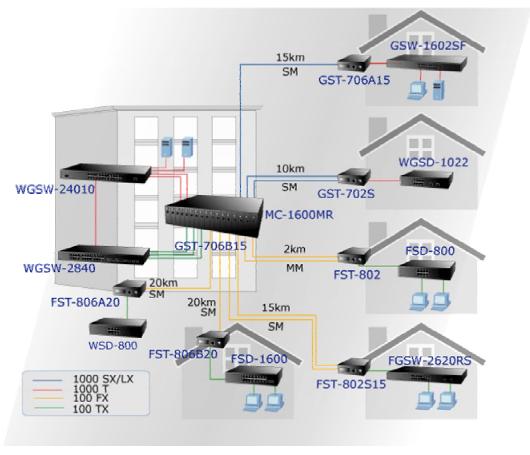
Step 4: Secure the FST-80x /GST-70x Media Converter board to the chassis by tightening the thumbscrew.

2.3.4 Centralize management Media Converter application

Affording the current network grows and expanding, the PLANET MC-1600MR/MC-1600R48 provide advanced Media conversion technology to fill this kind of demands. The Web Smart Media Converter chassis allows installing up to sixteen FST-8 / GST-7 series of Fast /Gigabit Ethernet Smart Media converter with diverse fiber connect types of options to meet different network applications. It is very flexible for FST-8 / GST-7 series to install into the central Web Smart Media converter chassis for centralized management.



Once, the FST-8 / GST-7 series of Fast /Gigabit Ethernet Smart Media converter install into Web Smart Media Converter chassis with hot swappable feature and redundant link function to avoid entire network downtime. The PLANET Web Smart Media Converter chassis with FST-8 / GST-7 series of Fast /Gigabit Ethernet Smart Media converter are the ideal solution for building a network solution of FTTC (Fiber to the Curb) and FTTB (Fiber to the Building) for ISPs, campuses and enterprises.



3. WEB SMART MEDIA CONVERTER CHASSIS MANAGEMENT

This chapter describes how to manage the Web Smart Media Converter Chassis. Topics include:

- Overview
- Management methods
- Assigning an IP address to the Web Smart Media Converter Chassis
- Logging on to the Web Smart Media Converter Chassis

3.1 Overview

The Web Smart Media Converter Chassis provides a user-friendly, command line under console interface. Using this interface, you can perform various Web Smart Media Converter Chassis configuration and management activities, including:

Command	Description
Show system	Show software version, Mac address and IP address of Web Smart Media Converter Chassis.
Show IP	Show current IP subnet address of Web Smart Media Converter Chassis.
Show power	Show current power supply unit status of Web Smart Media Converter Chassis.
Show slot [n]	Show current per slot status of Web Smart Media Converter Chassis with FST-8 / GST-7 Media Converter boards.
Show redundant [n]	Show per redundant group status of Web Smart Media Converter Chassis.
Set slot [n]	Configure per slot setting of Web Smart Media Converter Chassis with various Media Converter boards.
Set redundant [n] disable / enable	Disable or enable per redundant group of Web Smart Media Converter Chassis.
Set IP xxx.xxx.xxx, mmm. mmm, mmm, mmm, ggg.ggg.ggg.ggg	Assign IP address, subnet mask, and gateway of Web Smart Media Converter Chassis.
Set Pass [oldpass] [new-pass]	Change the default password of Web Smart Media Converter Chassis, the maximum length is 8 characters.
Factory Default	Reset the Web Smart Media Converter Chassis to factory default mode.
Reboot	Reboot the Web Smart Media Converter Chassis.
Logout	Logout console interface of Web Smart Media Converter Chassis.

Please refer to the following Chapter 4 and 5 for the details.

3.2 Management Methods

There are two ways to manage the Web Smart Media Converter Chassis:

- Local Console Management via the serial port of Web Smart Media Converter Chassis.
- Web Management via a network or dial-up connection.

3.2.1 Local Console Management

You can manage the Web Smart Media Converter Chassis locally by connecting a VT100 terminal, or a personal computer or workstation with terminal emulation software, to the serial port of Web Smart Media Converter Chassis. The terminal or workstation connects to the serial port of Web Smart Media Converter Chassis. using a null modem cable that has the appropriate connectors on each end.

This management method is ideal when:

- The network is unreliable.
- The Network Manager does not have direct network connection.

The serial port of Web Smart Media Converter Chassis. default setting is set to **19200** baud using a character format of **8** data bits, **no** parity, and **1** stop bit.

Therefore, configure the terminal or workstation to use these settings before you log on to the Web Smart Media Converter Chassis. You can change this default setting, if desired, after you log on.

3.2.2 Web Management

You can manage the Web Smart Media Converter Chassis remotely by having a remote host with web browser, such as Microsoft Internet Explorer or Netscape Navigator.

Using this management method:

The Web Smart Media Converter Chassis must have an Internet Protocol (IP) address accessible for the remote host.

3.3 Assigning an IP Address to the Web Smart Media Converter Chassis

To manage the Web Smart Media Converter Chassis remotely through the web browser with a Management Station, you must assign an IP address to the Web Smart Media Converter Chassis.

To set the IP address, please use "set ip xxx.xxx.xxx mmm.mmm.mmm ggg.ggg.ggg" command. For example, to configure the Web Smart Media Converter Chassis with the following IP settings:

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.254

Press the following command and press <Enter>

set ip 192.168.0.1 255.255.255.0 192.168.0.254

Then the following message appears under console interface:

The IP sets to 192.168.0.1

The netmask sets to 255.255.255.0 The gateway sets to 192.168.0.254

You can access the web interface of Web Smart Media Converter Chassis through the new IP address.

3.4 Logging on to the Web Smart Media Converter Chassis

When you log on to the Web Smart Media Converter Chassis console port for the first time, a sign-on string appears and you are prompted for a console login user name and password.

```
| MC-1600MR : Eth init.....done!
| current tick:00000001 sec |
| EEPROM Init... |
| Write EE TEST ==0x7cf u8EEData1=0xaa |
| Read EE_TEST ==0x7cf u8EEData1=0xaa |
| IEEPROM 24c16 found!]
| EEPROM: Data valid |
| Restore Configuration from EEPROM to Device... |
| Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9) |
| Show MY IP Address(from 24c16): (192.168.00.100) |
| Show DNS Server(from 24c16): (168.95.192.01) |
| rs232Dev_control.cmd_data[0]: |
| rs232Dev_control.cmd_data[1]: |
| MC-1600MR : Uip init |
| PLANET MC-1600MR |
| Software Version: 1.0 |
| MAC: 00-30-4F-23-88-A9 |
| IP : 192.168.0.100 |
| login: admin |
| password: ******
```

The factory default login username and password is admin.

Notice:

- 1. For security reason, please change and memorize the new password after this first setup.
- 2. Only accept command in lowercase letter under console interface.

4. CONSOLE INTERFACE

4.1 CONNECT TO PC

RS-232 serial cable

Use the bundled RS-232 serial cable and attach the 9-pin female connector to the male connector on the Web Smart Media Converter Chassis. Plug the other side of this cable to your PC.

Hyper Terminal

In Windows 98/2000/ME/XP, launch "HyperTerminal", create a new connection, and adjust settings as below:

Emulation: VT-100 compatible

Baud per second: 19200

Data bits: 8Parity: NoneStop bits: 1

Flow Control: None

To gain a demo, please see the Figure 4-1.

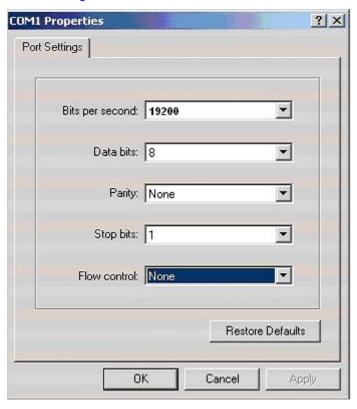


Figure 4-1 Port Settings for console interface

4.2 Login in

Login is required to access the console interface after the self-test completes successfully. The factory default user name and password is "admin". You may change the password by use "set pass" command. Please always enter the correct user name and password. (See Figure 4-2)

```
done<-1

MC-1600MR : Eth init.....done!
current tick:00000001 sec
EEPROM Init...
Write EE_IEST ==0x7cf u8EEData1=0xaa
Read EE_IEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!!
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00.30.4F-23.88.A9
IP: 192.168.0.100

login: admin
password: ******
```

Figure 4-2 Web Smart Media Converter Chassis login screen

4.3 Main Menu screen

After login the Web Smart Media Converter Chassis, the main menu screen shows as below.

```
MC-1600MR: Eth init.....done!
current tick:00000001 sec
EEPROM Init...
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!]
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP: 192.168.0.100

login: admin
password: ******
MC-1600MR>
```

Figure 4-3 Web Smart Media Converter Chassis Main Menu screen

4.4 Getting Started

4.4.1 General Guidelines

The Web Smart Media Converter Chassis allows users to configure the device via command line under console interface. Please type "help" or "?" for all available commands in the "MC-1600MR>" prompt. The screen of available commands in Figure 4-4 appears, and the detail description shown in table 4-1.

```
MC-1600MR> help
show system
show ip
show power
show slot [n]
show redundant [n]

set slot [n]
set redundant [n] disable/enable
set ip xxx.xxx.xxx mmm.mmm.mmm ggg.ggg.ggg.ggg
set pass [oldpass] [newpass]

factory default
reboot
logout

MC-1600MR>
```

Figure 4-4 Web Smart Media Converter Chassis available commands screen

Command	Description
Show system	Show software version, Mac address and IP address of Web Smart Media Converter Chassis.
Show IP	Show current IP subnet address of Web Smart Media Converter Chassis.
Show power	Show current power supply unit status of Web Smart Media Converter Chassis.
Show slot [n]	Show current per slot status of Web Smart Media Converter Chassis with FST-8 / GST-7 Media Converter boards.
Show redundant [n]	Show per redundant group status of Web Smart Media Converter Chassis.
Set slot [n]	Configure per slot setting of Web Smart Media Converter Chassis with various Media Converter boards.
Set redundant [n] disable / enable	Disable or enable per redundant group of Web Smart Media Converter Chassis.
Set IP xxx.xxx.xxx.xxx, mmm. mmm, mmm, mmm, ggg.ggg.ggg.ggg	Assign IP address, subnet mask, and gateway of Web Smart Media Converter Chassis.
Set Pass [oldpass] [new-pass]	Change the default password of Web Smart Media Converter Chassis, the maximum length is 8 characters.
Factory Default	Reset the Web Smart Media Converter Chassis to factory default mode.
Reboot	Reboot the Web Smart Media Converter Chassis.
Logout	Logout console interface of Web Smart Media Converter Chassis.

Table 4-1 Detail description of Web Smart Media Converter Chassis available commands

Notice: Only accept command in lowercase letter under console interface.

4.4.2 Show command

From the main menu screen (see Figure 4-3), input "**show**" and press enter. The show command list screen in Figure 4-5 appears.

```
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP: 192.168.0.100

login: admin
password: *****

MC-1600MR> show
show system
show ip
show power
show slot [n]
show redundant [n]
MC-1600MR>
```

Figure 4-5 Show command list screen

This show command list contains five items:

Show system: Please refer to chapter 4.4.2.1.

Show IP: Please refer to chapter 4.4.2.2.

Show power: Please refer to chapter 4.4.2.3. Show slot [n]: Please refer to chapter 4.4.2.4

Show redundant [n]: Please refer to chapter 4.4.2.5

4.4.2.1 Show system

Display the system information of Web Smart Media Converter Chassis, such as software version, Mac address and IP address. The system information screen in Figure 4-6 appears.

```
MC-1600MR> show system

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP : 192.168.0.100

MC-1600MR>
```

Figure 4-6 Show system command screen

4.4.2.2 Show IP

Display the current IP address, Netmask and Gateway of Web Smart Media Converter Chassis, the IP subnet address information screen in Figure 4-7 appears.

```
MC-1600MR> show ip

IP : 192.168.0.100
Netmask: 255.255.255.0
Gateway: 192.168.0.1

MC-1600MR>
```

Figure 4-7 Show IP command screen

4.4.2.3 Show power

Display the current power supply unit status of Web Smart Media Converter Chassis, the power information screen in Figure 4-8 appears.

```
MC-1600MR> show power

Power1 Power2
Power On V -
Power Status V -
Fan Status V -
V:Normal -:Empty X:Fail
MC-1600MR>
```

Figure 4-8 Show power command screen

4.4.2.4 Show slot [n]

Display current per slot status of Web Smart Media Converter Chassis with FST-8 / GST-7 Media Converter boards, the per slot information screen in Figure 4-9 & 4-10 appears.

Figure 4-9 Show slot command screen

```
MC-1600MR> show slot 1
                 GST-70X
Converter:
location:
                 TP
Ports:
                            Fiber
Link:
                 Down
                             Down
Speed:
Duplex:
Device:
                 Enable
Fiber LLR:
                 Disable
Fiber AN Bypass:Enable
MC-1600MR> show slot 2
             FST-80X
Converter:
location:
               TP
                          Fiber
Ports:
Link:
              Down
                          Down
Speed:
Duplex:
              Enable
Device:
LLCF:
              Disable
TP AN Mode:
              Auto
TP Speed:
TP Duplex:
TP FC:
              Enable
Fiber LLR:
              Disable
Fiber Duplex:Full
MC-1600MR>
```

Figure 4-10 Show slot command [n] screen

Notice: different parameters display on FST-8 / GST-7 Media Converter boards installation.

4.4.2.5 Show redundant [n]

Display per redundant group status of Web Smart Media Converter Chassis, the per redundant group status screen in Figure 4-11 & 4-12 appears.

```
MC-1600MR> show redundant

Redundant group 1: Enable
Redundant group 2: Disable
Redundant group 3: Enable
Redundant group 4: Disable
Redundant group 5: Enable
Redundant group 6: Disable
Redundant group 7: Enable
Redundant group 8: Disable
MC-1600MR>
```

Figure 4-11 Show redundant command screen

```
MC-1600MR> show redundant 1
Redundant group 1: Enable
MC-1600MR> show redundant 2
Redundant group 2: Disable
MC-1600MR> show redundant 3
Redundant group 3: Enable
MC-1600MR>
```

Figure 4-12 Show redundant [n] command screen

4.4.3 Set command

From the main menu screen (see Figure 4-3), input "set" and press enter. The set command list screen in Figure 4-13 appears.

```
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP: 192.168.0.100

login: admin
password: *****
MC-1600MR> set

set slot [n]
set redundant [n] disable/enable
set ip xxx.xxx.xxx.xxx mmm.mmm.mmm ggg.ggg.ggg.ggg
set pass [oldpass] [newpass]
MC-1600MR>
```

Figure 4-13 Set command list screen

This set command list contains four items:

Set slot [n]: Please refer to chapter 4.4.3.1.

Set redundant [n] disable / enable: Please refer to chapter 4.4.3.2.

Set ip xxx.xxx.xxx.xxx.mmm.mmm.mmm.ggg.ggg.ggg: Please refer to chapter 4.4.3.3

Set pass [oldpass] [newpass]: Please refer to chapter 4.4.3.4

4.4.3.1 Set slot [n]

This command allows configuring per slot parameters of Web Smart Media Converter Chassis, different parameters provide on FST-8 / GST-7 Media Converter boards installation. The correct usage is shown as below:

Set slot [n]: n=1-16, to configuring per slot parameters of Web Smart Media Converter Chassis. The configuring per slot parameters screen in Figure 4-14 appears and the detail description shown in table 4-2 & 4-3.

```
MC-1600MR> set slot 1

GST-70X setting
Device: (1)Enable (2)Disable 1
Fiber LLR: (1)Enable (2)Disable 2
Fiber AN Bypass: (1)Enable (2)Disable 1

MC-1600MR> set slot 2

FST-80X setting
Device: (1)Enable (2)Disable 1

LLCF: (1)Enable (2)Disable 2

TP AN Mode: (1)Auto (2)Force 2

TP Speed: (1)100M (2)10M 1

TP Duplex: (1)Full (2)Half 1

TP Flow control: (1)Enable (2)Disable 1

Fiber LLR: (1)Enable (2)Disable 2

Fiber Duplex: (1)Full (2)Half 1

MC-1600MR>
```

Figure 4-14 Set slot [n] command screen

Item	Description
Device	To enable or disable per FST-80x Converter board.
LLCF	To enable or disable the LLCF function from FST-80x Converter board.
TP AN Mode	To set the UTP port runs at Auto-negotiation or Forced Mode.
TP Speed.★	To set the UTP port runs at 100Mbps or 10Mbps.
TP Duplex.*	To set the UTP port runs at Full duplex or Half duplex mode.
TP FC	To set the Flow Control of the UTP port to enable or disable.
Fiber LLR	To enable or disable the LLR function of the Fiber port.
Fiber Duplex	To set the Duplex Mode of Fiber port to Full duplex or Half duplex mode.

Table 4-2 Descriptions of the FST-80x slot Configuration screen Objects

Item	Description
Device	To enable or disable per GST-70x Converter board.
Fiber LLR	To enable or disable the LLR function of the fiber port.
Fiber AN Bypass	To set the Auto negotiation bypass function of the fiber port to enable or disable.

Table 4-3 Descriptions of the GST-70x slot Configuration screen Objects

🖎 Notice:

*: Only set the TP port run at force mode, the TP speed and TP duplex function are available.

4.4.3.2 Set redundant [n] disable/enable

This command allows disable or enable per redundant group of Web Smart Media Converter Chassis, the correct usage is shown as below:

Set redundant [n] disable/enable: n=1-8, to disable or enable per redundant group of Web Smart Media Converter Chassis, the screen in Figure 4-15 appears.

```
MC-1600MR> set redundant 1 enable

Redundant group 1: Enable
Redundant group 2: Disable
Redundant group 3: Enable
Redundant group 4: Disable
Redundant group 5: Enable
Redundant group 6: Disable
Redundant group 7: Enable
Redundant group 7: Enable
Redundant group 8: Disable

MC-1600MR> set redundant 2 enable

Redundant group 1: Enable
Redundant group 2: Enable
Redundant group 3: Enable
Redundant group 4: Disable
Redundant group 5: Enable
Redundant group 6: Disable
Redundant group 6: Disable
Redundant group 7: Enable
Redundant group 7: Enable
Redundant group 8: Disable
Redundant group 8: Disable
Redundant group 8: Disable
```

Figure 4-15 Set redundant [n] disable / enable command screen

The redundant backup setting function already divides 8 redundant groups and each group includes 2 ports, the ports with an odd number will be **"Master"**. Vice versa, the ports with even number will be **Slave"**.

Group	Master	Slave
1	1	2
2	3	4
3	5	6
4	7	8
5	9	10
6	11	12
7	13	14
8	15	16

Once enable the redundant backup setting function, only the Master fiber interface will work as a major fiber connection and the Slave fiber interface as a backup fiber connection. When the system detects Master fiber interface disconnects then the slave fiber interface will active as major fiber connection to avoid network downtime.

When the system detect the Master fiber interface of get recovery, then the Slave Fiber interface will disconnect automatically and become a backup fiber connection again.

Notice: LLCF must active on both Master and Slave devices. If not, then the redundant backup setting function will not work.

This command allows assign IP address, netmask and gateway of Web Smart Media Converter Chassis; the correct usage is shown as below:

```
set ip 192.168.0.100 255.255.255.0 192.168.0.254 and press <Enter>
```

Then the following message appears under console interface:

```
The IP sets to 192.168.0.100

The netmask sets to 255.255.255.0

The gateway sets to 192.168.0.254
```

Means the IP address was changed successfully, the IP subnet address setting screen in Figure 4-16 appears.

```
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP : 192.168.0.100

login: admin
password: *****

MC-1600MR> set ip 192.168.0.100
The IP sets to 192.168.0.100
The netmask sets to 255.255.255.0
The gateway sets to 192.168.0.254

MC-1600MR>
```

Figure 4-16 Set IP command screen

4.4.3.4 Set pass [oldpass] [newpass]

This command allows assign password of Web Smart Media Converter Chassis, the password setting screen in Figure 4-17 appears.

```
MC-1600MR> set pass [admin] [planet]
Change password from [admin] to [planet] successfully!
MC-1600MR>
```

Figure 4-17 Set pass command screen

Notice:

- 1. For security reason, please change and memorize the new password after this first setup.
- 2. The maximum length is 8 characters.

4.4.4 Factory default

This command allows reset the Web Smart Media Converter Chassis to factory default mode. The factory default screen in Figure 4-18 & 4-19 appears.

```
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!]
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP: 192.168.0.100

login: ad
Incorrect username!
login: admin
password: *******
MC-1600MR> factory default
Reset System...
```

Figure 4-18 Factory default screen

```
MC-1600MR: Eth init.....done!
current tick:000000001 sec
EEPROM Init...
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!]
InValid EEPROM!!!
Restore Default Value...
Set to default password
Set to default IP address
Set to default IP address
Set to default gateway
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address:192.168.00.100
Set to default location
Set to default redundant
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00.30.4F:23.88.49
IP: 192.168.0.100

login:
```

Figure 4-19 Factory default screen

4.4.5 Reboot

This command allows reboot the Web Smart Media Converter Chassis, the reboot screen in Figure 4-20 & 4-21 appears.

```
current tick:00000001 sec
EEPROM Init...
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rrs232Dev_control.cmd_data[0]:
rrs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP: 192.168.0.100

login: admin
password: *****
MC-1600MR> reboot
Reset System..._
```

Figure 4-20 Web Smart Media Converter Chassis reboot screen

```
ip inspc.:reg.0x7001 = 0x3f
done<-1

MC-1600MR : Eth init......done!
current tick:00000001 sec
EEPROM Init...
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM: 24c16 found!!
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR : Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00-30-4F-23-88-A9
IP : 192.168.0.100

login:
```

Figure 4-21 Web Smart Media Converter Chassis reboot screen

4.4.6 Logout

This command provides logout the Web Smart Media Converter Chassis, the screen in Figure 4-22 appears.

```
EEPROM Init...
Write EE_TEST ==0x7cf u8EEData1=0xaa
Read EE_TEST ==0x7cf u8EEData1=0xaa
IEEPROM 24c16 found!]
EEPROM: Data valid
Restore Configuration from EEPROM to Device...
Show MY MAC Address(from 24c16): (0x00:30:4F:23:88:A9)
Show MY IP Address(from 24c16): (192.168.00.100)
Show DNS Server(from 24c16): (168.95.192.01)
rs232Dev_control.cmd_data[0]:
rs232Dev_control.cmd_data[1]:
MC-1600MR: Uip init

PLANET MC-1600MR
Software Version: 1.0
MAC: 00.30.4F-23.88-A9
IP: 192.168.0.100

login: admin
password: *****
MC-1600MR> logout
login:
```

Figure 4-22 Web Smart Media Converter Chassis Logout screen

5. WEB MANAGEMENT

Before login the Web interface of Web Smart Media Converter Chassis, please setup the "IP Address" with local serial console port (RS232 port) and use this IP address to configure Web Smart Media Converter Chassis through the **Web** interface.

Or modify your PC's IP domain to the same with Web Smart Media Converter Chassis then use the default IP address (192.168.0.100) to remote configure Web Smart Media Converter Chassis through the **Web** interface.

5.1 Login in to the Web Smart Media Converter Chassis

To access the Web-browser interface you must first enter the user name and password, the default user name and password is "admin". You will see the following screen comes out on the Web browser program:



Figure 5-1 The Web login Page screen of Web Smart Media Converter Chassis

After the User name and Password is entered, you will see the web main menu screen.



Figure 5-2 The web main menu screen of Web Smart Media Converter Chassis

5.2 Chassis Status

This section provides current status of power supply unit from Web Smart Media Converter Chassis, the screen in Figure 5-3 appears.



Figure 5-3 Chassis Status Web Page screen

5.3 Converter Status

This section introduces detail settings of per slot parameters from Web Smart Media Converter Chassis; the screen in Figure 5-4 appears.

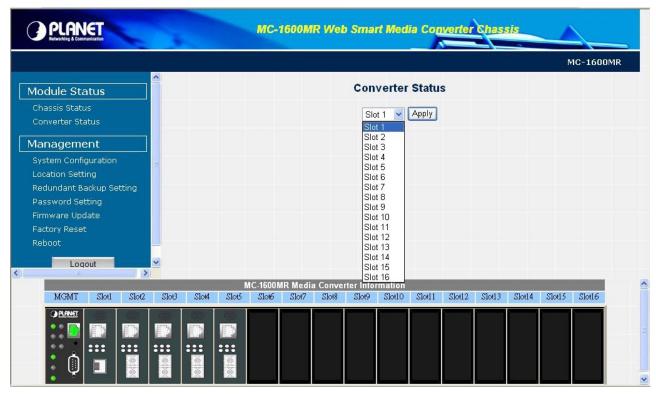


Figure 5-4 Converter Status Web Page screen

Different parameters provide on FST-8 / GST-7 Media Converter boards installation, the screen in Figure 5-5 & Figure 5-6 appears and table 5-1 & 5-2 descriptions the slot configuration objects of Web Smart Media Converter Chassis.

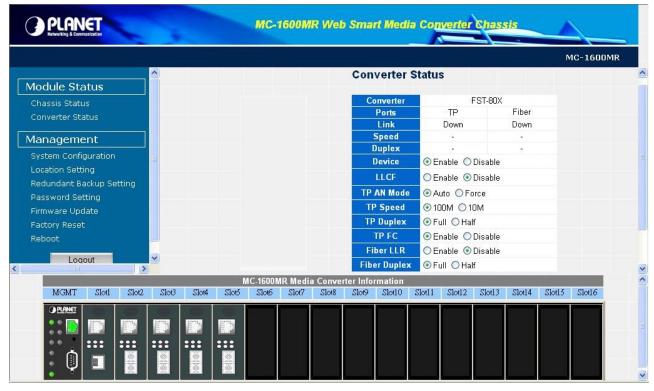


Figure 5-5 Converter Status Web Page screen

Item	Description
Device	To enable or disable per FST-80x Converter board.
LLCF	To enable or disable the LLCF function from FST-80x Converter board.
TP AN Mode	To set the UTP port runs at Auto-negotiation or Forced Mode.
TP Speed. *	To set the UTP port runs at 100Mbps or 10Mbps.
TP Duplex.★	To set the UTP port runs at Full duplex or Half duplex mode.
TP FC	To set the Flow Control of the UTP port to enable or disable.
Fiber LLR	To enable or disable the LLR function of the Fiber port.
Fiber Duplex	To set the Duplex Mode of Fiber port to Full duplex or Half duplex mode.

Table 5-1 Descriptions of the FST-80x slot Configuration screen Objects

Notice:

*: Only set the TP port run at force mode, the TP speed and TP duplex function are available.

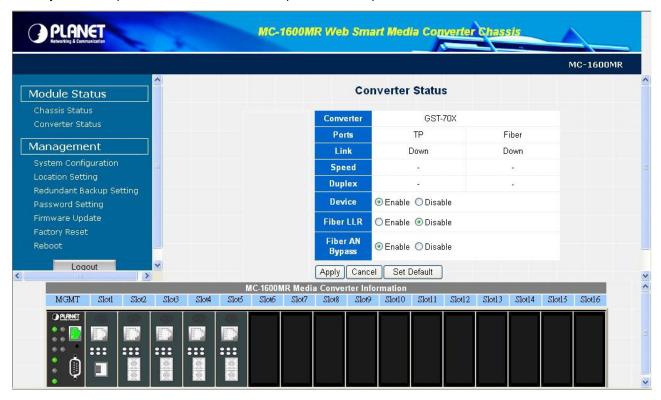


Figure 5-6 Converter Status Web Page screen

Item	Description
Device	To enable or disable per GST-70x Converter board.
Fiber LLR	To enable or disable the LLR function of the Fiber port.
Fiber AN Bypass	To set the Auto negotiation bypass function of the Fiber port to enable or disable.

Table 5-2 Descriptions of the GST-70x slot Configuration screen Objects

5.4 System Configuration

This section introduces detail parameters of Web Smart Media Converter Chassis, such as IP subnet address setting and firmware version and Mac address display. The screen in Figure 5-7 appears and table 5-3 descriptions the System Configuration objects of Web Smart Media Converter Chassis.



Figure 5-7 System Configuration Web Page screen

Item	Description
IP Address	Allow to input new IP address of Web Smart Media Converter Chassis.
Subnet Mask	Allow to input new Subnet Mask address of Web Smart Media Converter Chassis.
Default Gateway	Allow to input new default Gateway of Web Smart Media Converter Chassis.
Firmware Version	Display current firmware version of Web Smart Media Converter Chassis.
MAC Address	Display MAC Address of Web Smart Media Converter Chassis.
Submit	Save the current configuration of Web Smart Media Converter Chassis.
Cancel	Ignore current configuration of Web Smart Media Converter Chassis.

Table 5-3 Descriptions of the System Configuration screen Objects

Once, change the IP subnet address and click the "**Submit**" button to take effect. The Web Smart Media Converter Chassis will proceed following procedure and ask re-login with new IP address. The screen in Figure 5-8 & 5-9 & 5-10 & 5-11 appears.



Figure 5-8 System Configuration Web Page screen

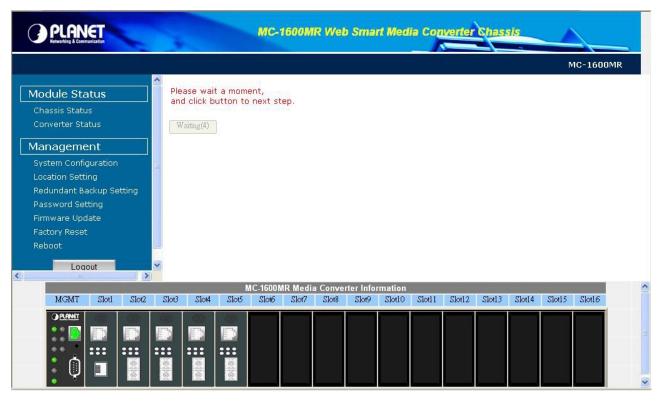


Figure 5-9 System Configuration Web Page screen

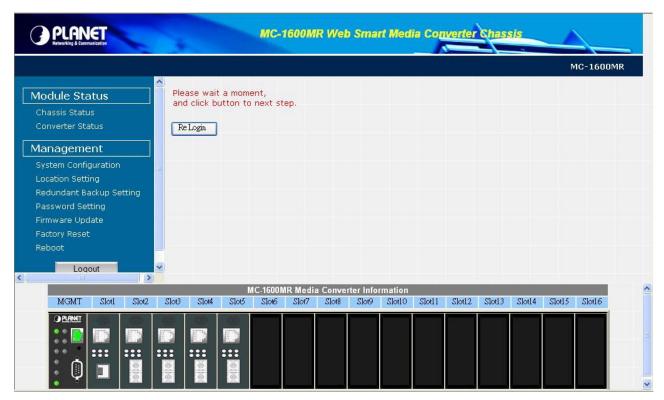


Figure 5-10 System Configuration Web Page screen

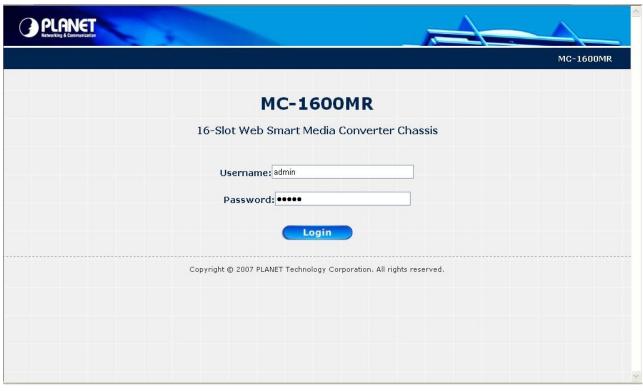


Figure 5-11 System Configuration Web Page screen

5.5 Location Setting

This section allows you to add location description on each slot of Web Smart Media Converter Chassis, the screen in Figure 5-12 appears.

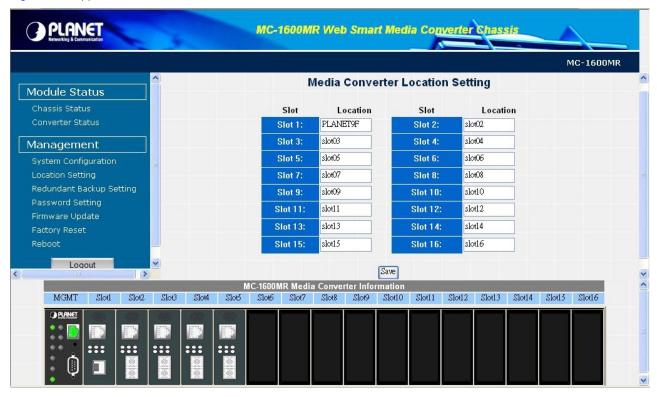


Figure 5-12 Location Setting Web Page screen

After setup completed, press "Save" button to save current configuration.

Notice: The maximum length is 8 characters.

5.6 Redundant Backup Setting

This section allows you to enable or disable redundant backup setting function of Web Smart Media Converter Chassis, the screen in Figure 5-13 appears.

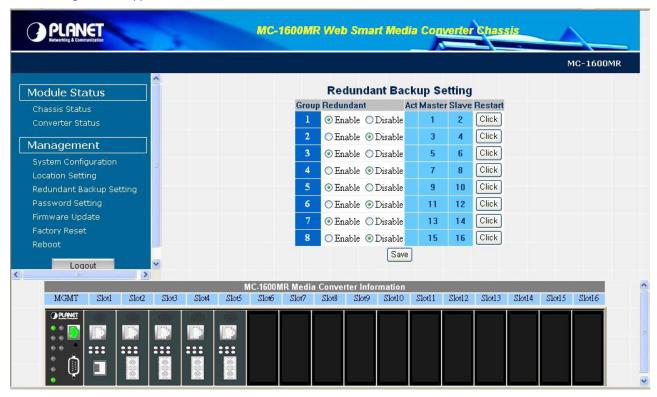


Figure 5-13 Redundant Backup Setting Web Page screen

The redundant backup setting function already divides 8 redundant groups and each group includes 2 ports, the ports with an odd number will be **"Master**". Vice versa, the ports with even number will be **Slave**".

Once enable the redundant backup setting function, only the Master fiber interface will work as a major fiber connection and the Slave fiber interface as a backup fiber connection. When the system detects Master fiber interface disconnects then the slave fiber interface will active as major fiber connection to avoid network downtime.

When the system detect the Master fiber interface of get recovery, then the Slave Fiber interface will disconnect automatically and become a backup fiber connection again.

Notice: LLCF must active on both Master and Slave devices. If not, then the redundant backup setting function will not work.

5.7 Password Setting

This section allows you to create a new password for Web Smart Media Converter Chassis, the screen in Figure 5-14 appears.



Figure 5-14 Password Setting Web Page screen

Please input the current password in "Old Password" space, then input new password twice in space of "New Password" and "Confirm New Password". The screen in Figure 5-15 appears.



Figure 5-15 Password Setting Web Page screen

Press "Apply" button to save current configuration, the following screen in Figure 5-16 appears.



Figure 5-16 Password Setting Web Page screen

Please use the new password to login the Web Smart Media Converter Chassis on next login.

Notice:

- 1. For security reason, please change and memorize the new password after this setup.
- 3. The maximum length is 8 characters.

5.8 Firmware Upgrade

This section provides firmware upgrade of Web Smart Media Converter Chassis, after choose this function and the following screen appears in Figure 5-17. Please press "**Update**" button to continue following firmware upgrade process.

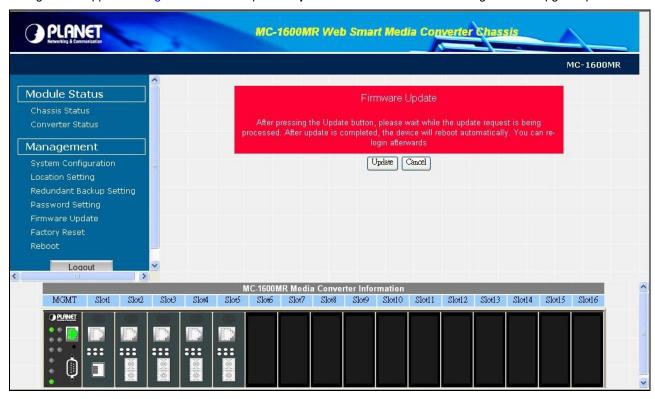


Figure 5-17 Firmware upgrade Web Page screen

Please wait for two seconds and press "Continue" to next firmware upgrade web page, the screen in Figure 5-18 appears.



Figure 5-18 Firmware upgrade Web Page screen

Please press "**Browser**" to locate the latest firmware of Web Smart Media Converter Chassis that deposit in your PC and press "**Upgrade**" to start the firmware upgrade process. The screen in Figure 5-19 appears.

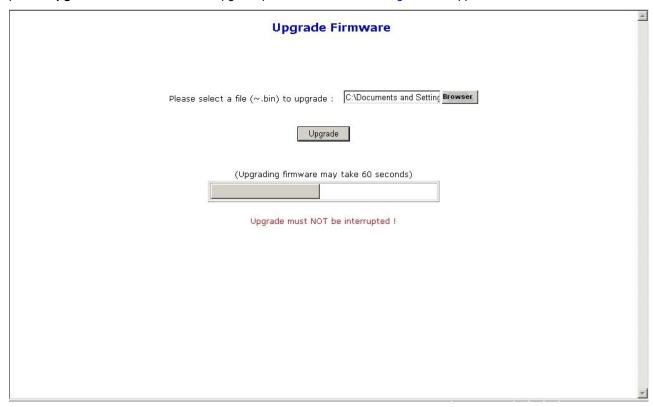


Figure 5-19 Firmware upgrade Web Page screen

Please wait for twenty-four seconds and go to next firmware upgrade web page, the screen in Figure 5-20 appears.



Figure 5-20 Firmware upgrade Web Page screen

Then the re-login screen appears in Figure 5-21, please press "**Re Login**" button to re-login web interface of Web Smart Media Converter Chassis with latest firmware version, the screen in Figure 5-22 appears.

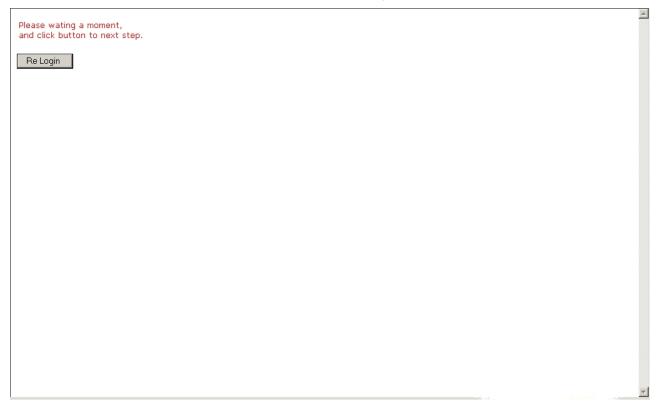


Figure 5-21 Firmware upgrade Web Page screen



Figure 5-22 The Web Smart Media Converter Chassis login Web Page screen

5.9 Restore System Default

This section provides reset the Web Smart Media Converter Chassis to factory default mode, after choose this function and the following screen appears in Figure 5-23. Please press "**OK**" button to take effect and the Web Smart Media Converter will reboot automatically, please refresh current Web page or create a new Web page from Internet browser. Please re-login the web interface with default username and password "**admin**", the screen in Figure 5-24 appears.



Figure 5-23 Reset to factory default Web Page screen



Figure 5-24 Web Smart Media Converter Chassis login Web Page screen

5.10 Reboot System

This section provides reboot the Web Smart Media Converter Chassis, after choose this function and the following screen appears in Figure 5-25. Please press "**OK**" button to take effect and the Web Smart Media Converter will reboot automatically, please refresh current Web page or create a new Web page from Internet browser. Please re-login the web interface with default username and password "**admin**", the screen in Figure 5-26 appears.



Figure 5-25 Reboot Web Page screen



Figure 5-26 Web Smart Media Converter Chassis login Web Page screen

5.11 Logout

This section allows to logout the Web Smart Media Converter Chassis, the screen in Figure 5-27 & 5-28 appears.



Figure 5-27 Web Smart Media Converter Chassis Logout Web Page screen



Figure 5-28 Web Smart Media Converter Chassis login Web Page screen

6. LINK PASS THROUGH FUNCTION

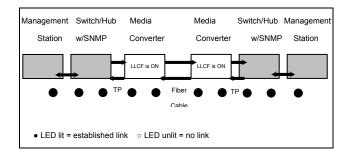
The LFP function includes the Link Fault Pass Through function (LLCF/LLR). LLCF/LLR can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net.

LLCF (Link Loss Carry Forward) means when a device connected to the converter and the TP line loss the link, the converter's fiber will disconnect the link of transmit. LLR (Link Loss Return) means when a device connected to the converter and the fiber line loss the link, the converter's fiber will disconnect the link of transmit. Both can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net.

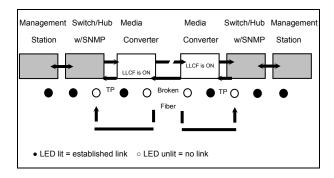
6.1 Link Loss Carry Forward (LLCF)

The LLCF function for troubleshooting a remote connection. When LLCF is enabled, the FL/TP ports do not transmit a link signal until they receive a link signal from the opposite port.

The diagram below shows a typical network configuration with a good link status using FST-8/GST-7 Media Converter boards for remote connectivity.



If the connection breaks, FST-8/GST-7 Media Converter boards that link loss forward to the switch/hub which generates a trap to the management station. The administrator can then determine the source of the issue.



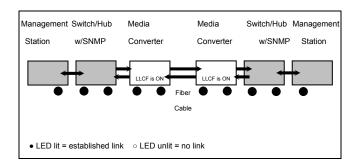
6.2 Link Loss Return (LLR)

The LLR function for troubleshooting a remote connection. LLR works in conjunction with LLCF.

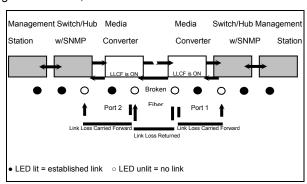
When LLR is enabled, the port's transmitter shuts down when its receiver fails to detect a valid receive link. LLR should only be enabled on one end of the link and is typically enabled on either the unmanaged or remote device.

The diagram below shows a typical network configuration with a good link status using FST-8/GST-7 Media Converter boards for remote connectivity.

Note that LLR and LLCF are enabled as indicated in the diagram.



If one of the optical conductors is bad (as shown in the diagram box below), the converter with LLR enabled will return a no-link condition to its link partner. With LLCF also enabled, the no-link condition is carried forward to the switch/hub where a trap is generated to the management station, and the administrator can then determine the source of the loss.



7. TROUBLESHOOTING

This chapter contains information to help you solve issues. If the Web Smart Media Converter Chassis is not functioning properly, make sure the device was set up according to instructions in this manual.

The Power LED is not lit

Solution:

Check the power cable connection between power supply unit and Web Smart Media Converter Chassis.

What is the difference between MC-7/10/15 series chassis and MC-1600M series chassis?

Solution:

Except provide power supply to each slot and centralize management, the MC-1600M series chassis also provide local command line console and remote Web interface for efficient management.

Can I install FT-70x/FT-80x and GT-70x series Media converter into the Web Smart Media Converter Chassis?

Solution:

No. due to different hardware designed, the FT-70x / FT-80x and GT-70x cannot install into Web Smart Media Converter Chassis.

What if I forget current password of Web Smart Media Converter Chassis?

Solution:

- 1. Please enter into console interface, use username: planet and password: [^_^] to access console interface. Then use "show pass" command to display current password.
- 2. Please press "Reset" button from the management module for 5 seconds then the Web Smart Media Converter Chassis will reset to factory default mode (username and password is admin).

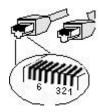
APPENDIX A NETWORKING CONNECTION

A.1 Switch's RJ-45 Pin Assignments

10/100Mbps, 10/100Base-TX

RJ-45 Connector pin assignment		
Contact	MDI	MDI-X
	Media Dependant Interface	Media Dependant Interface -Cross
1	Tx + (transmit)	Rx + (receive)
2	Tx - (transmit)	Rx - (receive)
3	Rx + (receive)	Tx + (transmit)
4, 5	Not used	
6	Rx - (receive)	Tx - (transmit)
7, 8	Not used	

A.2 RJ-45 cable pin assignment



The standard RJ-45 receptacle/connector

There are 8 wires on a standard UTP/STP cable and each wire is color-coded. The following shows the pin allocation and color of straight cable and crossover cable connection:



Figure A-1: Straight-Through and Crossover Cable

Please make sure your connected cables are with same pin assignment and color as above picture before deploying the cables into your network.

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