Cisco OptoStar II

Console Software (Console)

Installation and Operation Guide

For Your Safety

Explanation of Warning and Caution Icons

Avoid personal injury and product damage! Do not proceed beyond any symbol until you fully understand the indicated conditions.

The following warning and caution icons alert you to important information about the safe operation of this product:

This symbol indicates important operating or maintenance instructions.

You may find this symbol affixed to the product. This symbol indicates a live terminal where a dangerous voltage may be present; the tip of the flash points to the terminal device.

You may find this symbol affixed to the product. This symbol indicates a protective ground terminal.

You may find this symbol affixed to the product. This symbol indicates a chassis terminal (normally used for equipotential bonding).

You may find this symbol affixed to the product. This symbol warns of a potentially hot surface.

You may find this symbol affixed to the product and in this document. This symbol indicates an infrared laser that transmits intensity-modulated light and emits invisible laser radiation or an LED that transmits intensity-modulated light.

Important

Please read this entire guide. If this guide provides installation or operation instructions, give particular attention to all safety statements included in this guide.

Notices

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Contents

Chapter 1 Introduction

Overview

The OptoStar II optical platform is an advanced transmission system, designed to optimize network architectures and increase reliability, scalability, and cost effectiveness.

This chapter introduces the OptoStar II console software.

Purpose

This document provides information about the installation and operation of the OptoStar II console software.

Who Should Use This Document

This document is intended for authorized service personnel who have experience working with similar equipment. The service personnel should have appropriate background and knowledge to complete the procedures described in this document.

Qualified Personnel

> ⚠ **CAUTION:**
>
> **Allow only qualified and skilled personnel to install and operate this system software. Otherwise, equipment damage may occur.**

Only appropriately qualified and skilled personnel should attempt to install and operate this software.

Scope

This document discusses the following topics.

- Program installation
- Program operation

Document Version

This is the fifth release of this document.

In This Chapter

System Introduction

Description

The OptoStar II control software is an integrated local management system for the Cisco OptoStar II Optical Platform. It provides a centralized monitoring and uniform configuration network management system for cable TV equipment, and it guarantees effective management of the operator's network maintenance personnel.

The OptoStar II control software provides system setup, tools, network parameters and other functions, introduces the module control interface.

Chapter 2 Installation and Configuration

Overview

This chapter provides information about the installation of the OptoStar II console software.

Qualified Personnel

Only appropriately qualified and skilled personnel should attempt to install and operate this system software. Otherwise, equipment damage may occur.

In This Chapter

Configuration Requirements

This section introduces the procedures to install the OptoStar II console software.

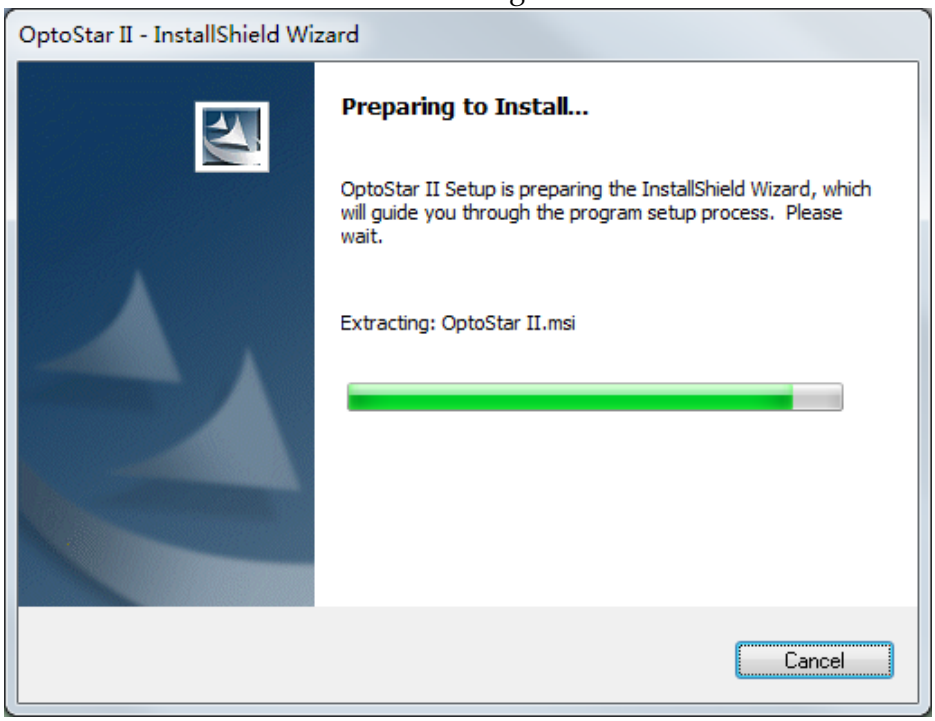
Before You Begin

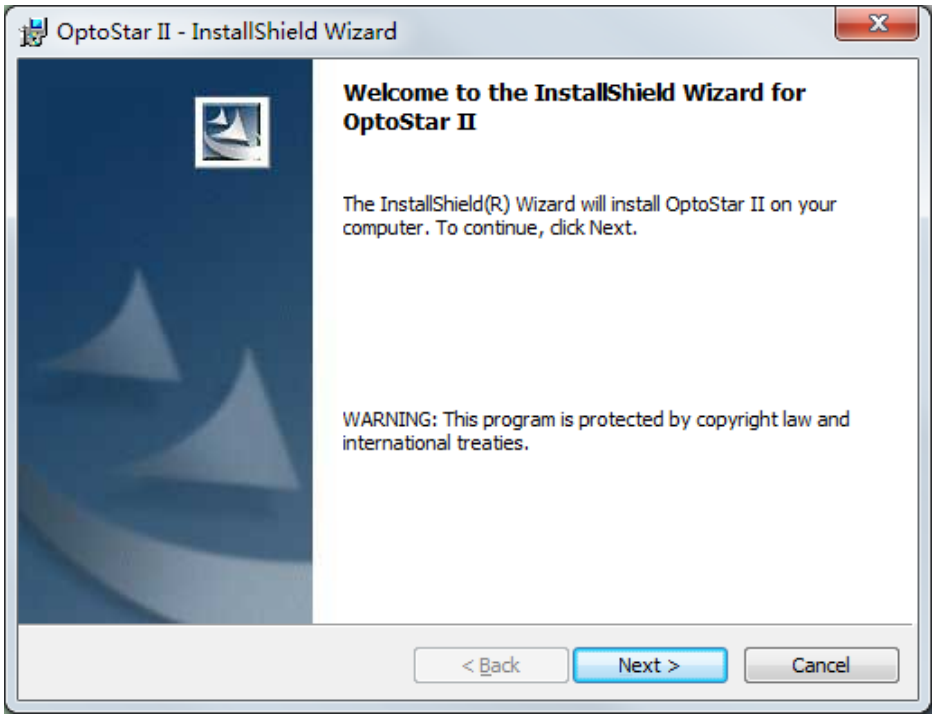
- One PC
- OptoStar II console software installation package

System Requirements

- **Supported operation system:** Windows 7, Windows Vista, Windows Server 2003, and Windows XP
- **Processor:** 400 MHz Pentium or equivalent processor (minimum requirement); 1 GHz Pentium or equivalent processor (recommended)
- **Memory:** 96 MB (minimum requirement); 256 MB (recommended)
- **Hard drive:** 500 MB free space required
- **Monitor:** 800 x 600, 256-color (minimum requirement); 1024 x 768 high color, 32-bit (recommended)

1. Open the Cisco console setup Vx. x zip pack, which contains release.txt and setup.exe. The release.txt records the change history of the console software; and the setup.exe is software installation package.
2. Run the installation program Cisco console setup.exe, and follow the wizard to install the program.
   Note: The installation interface is in English.





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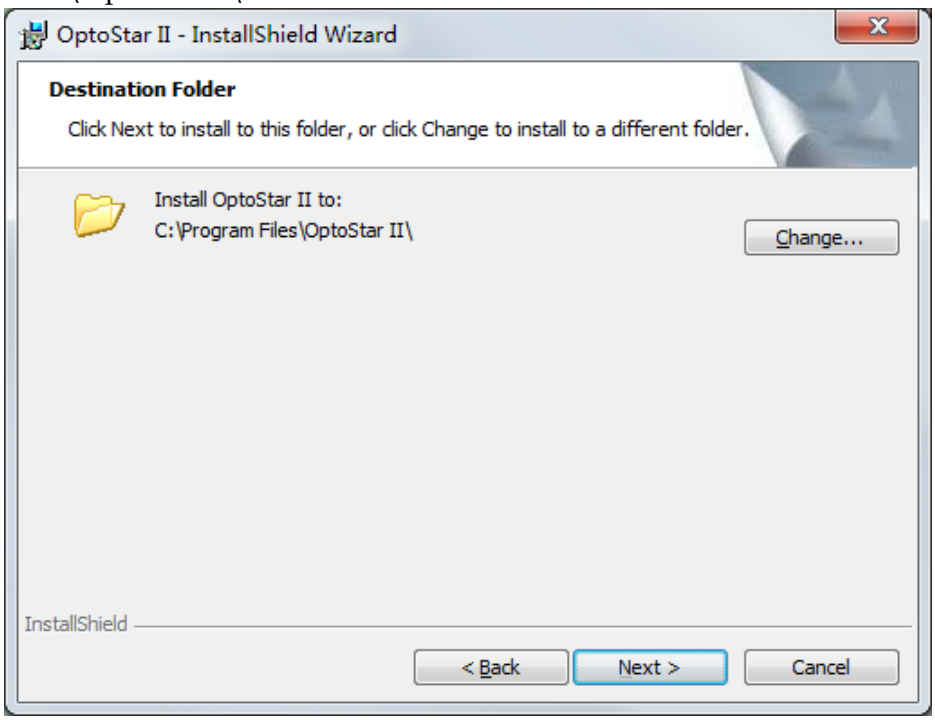
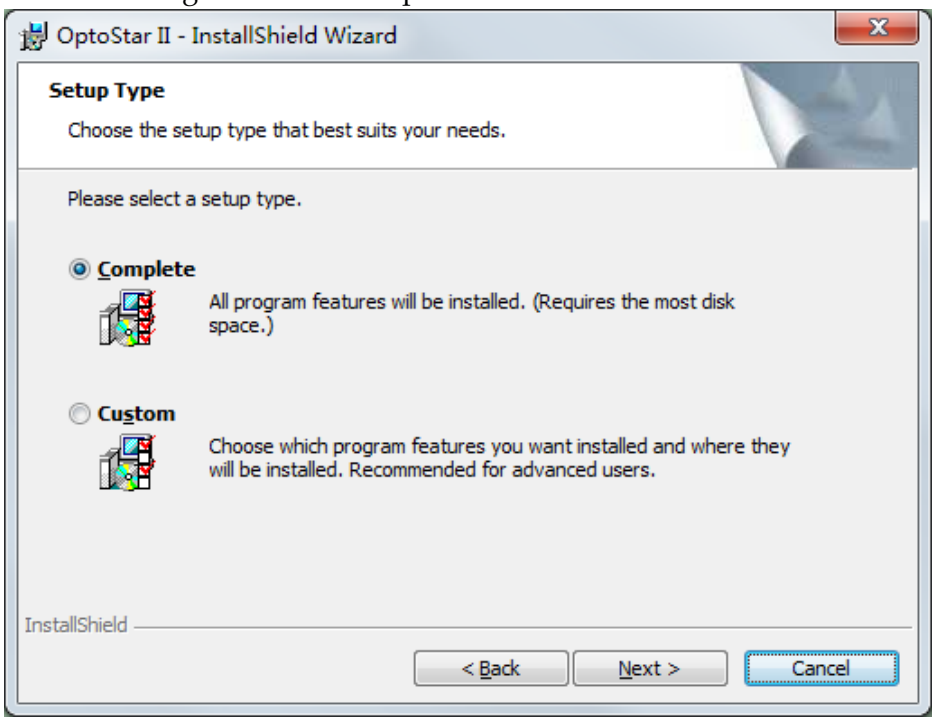
3. Click Next to select the installation path. Default path is: C: \Program Files\OptoStar II\.



4. Click Next to go to the next step.



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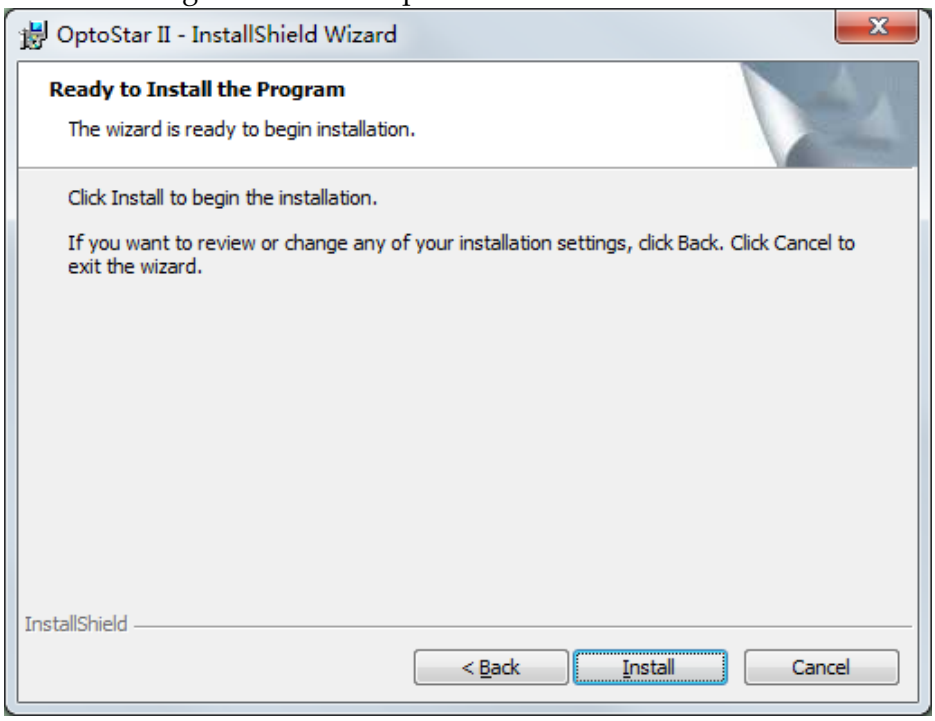
5. Click Next to go to the next step.



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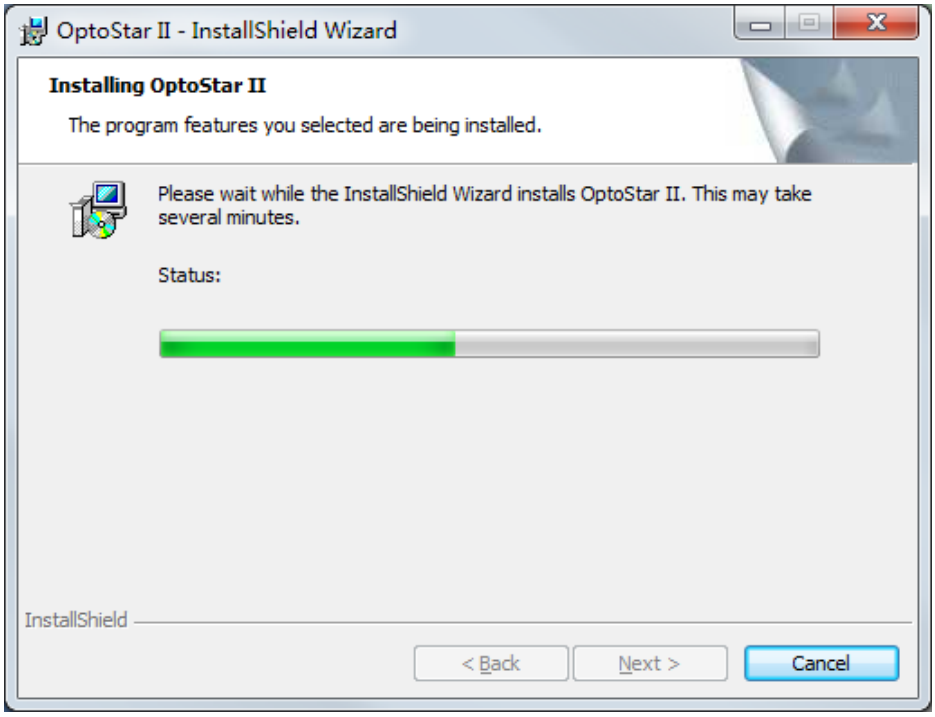
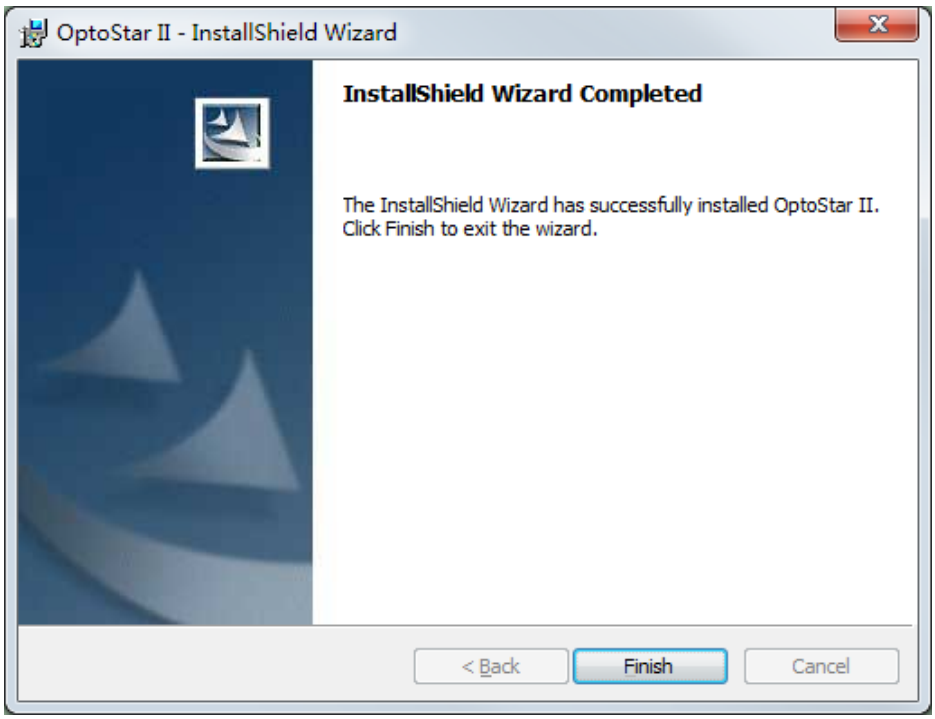
6. Click Install to start installation.





7. Click Finish to finish installation and the desktop will show Cisco Console.exe shortcut.

Chapter 3 Operation

Overview

This chapter provides information about the operation of the OptoStar II console software.

Qualified Personnel

Only appropriately qualified and skilled personnel should attempt to install and operate this system software. Otherwise, equipment damage may occur.

In This Chapter

Console Software Operation

This section introduces the procedures to operate the OptoStar II Console software.

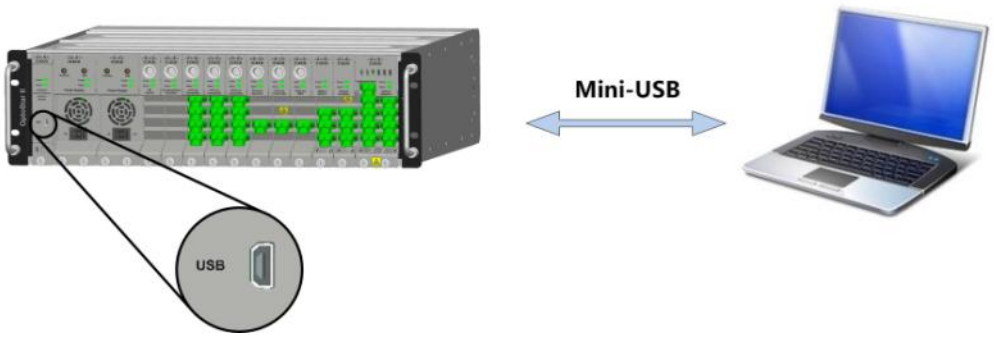
Before You Begin

- One PC
- Mini-USB data cable
- OptoStar II Console software installation package

Start

1. Make sure that the fiber and RF cables of relevant modules of the OptoStar II platform are connected.
2. Turn the front panel switch of the OptoStar II power supply module to ON position. The power supply module and relevant modules will initialize for about 5 seconds, and the ICIM will load for about 25 seconds.

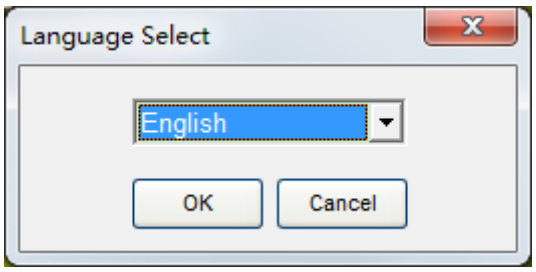
   Note: The system will achieve optimal working condition after one hour's warm-up.
3. When the device initialization is complete, connect the Mini-USB side of the USB cable provided with the ICIM to the Mini-USB interface of the ICIM front panel. The other side of the USB cable should be connected to the USB interface on the PC. Now the LCD screen shows USB connected, and the keypads below the LCD screen are temporarily unavailable. The illustration below shows the connection method.



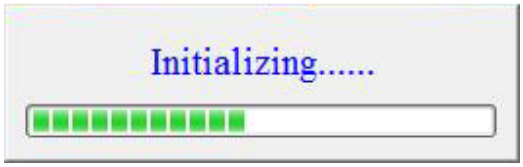
4. Start the OptoStar II console software.

System Login

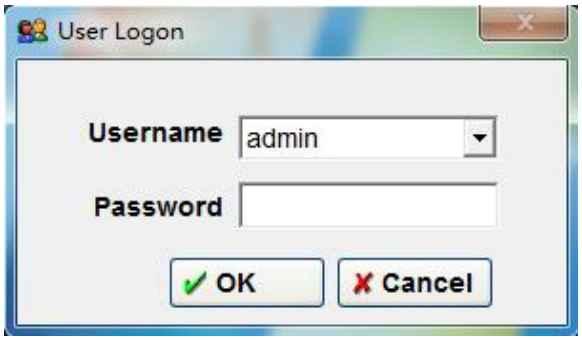
1. Run OptoStar II console. exe, and select English or Chinese (Simplified) to enter the console, asshown below:



2. This document takes English interface as example. Select English, and click OK. Now the console is initializing, asshown below:



3. The login interface of the console system appears, as shown below:



- Input default user name: admin and default password: admin to login the console system. The following examples will use the username “admin”.

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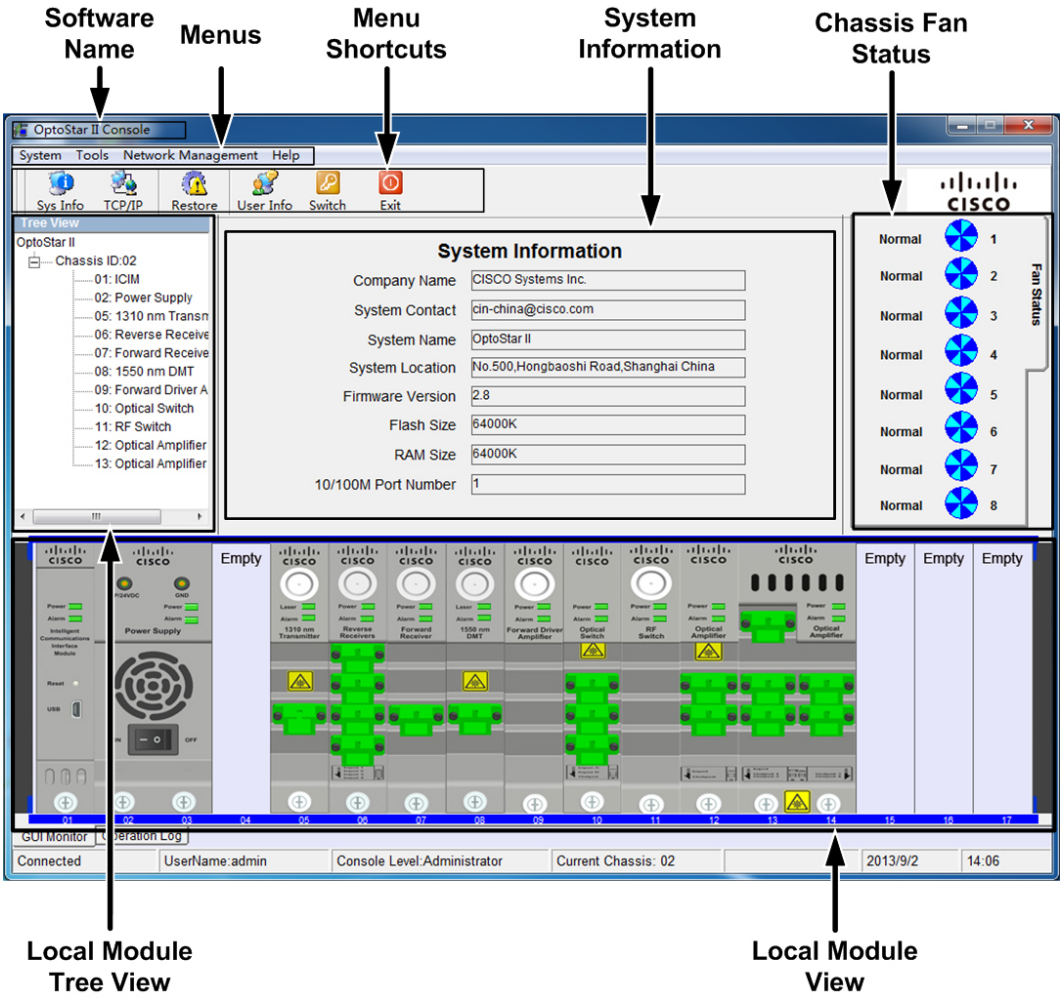
Software Main Interface

The illustration below shows the main interface of the OptoStar II console.



- The OptoStar II console main interface shows the software name, menus, menu shortcuts, local module tree view, system information, chassis fan status, and local module view.

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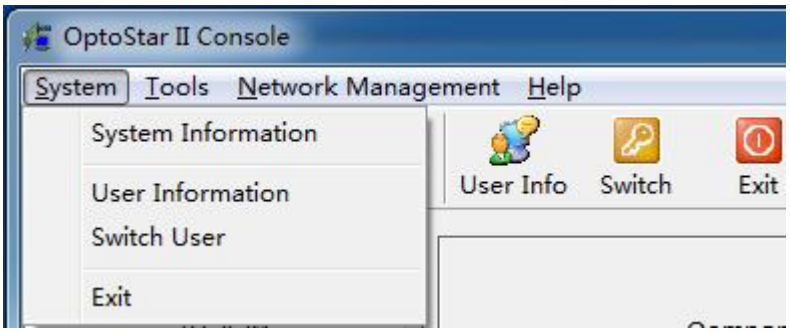
System Setup

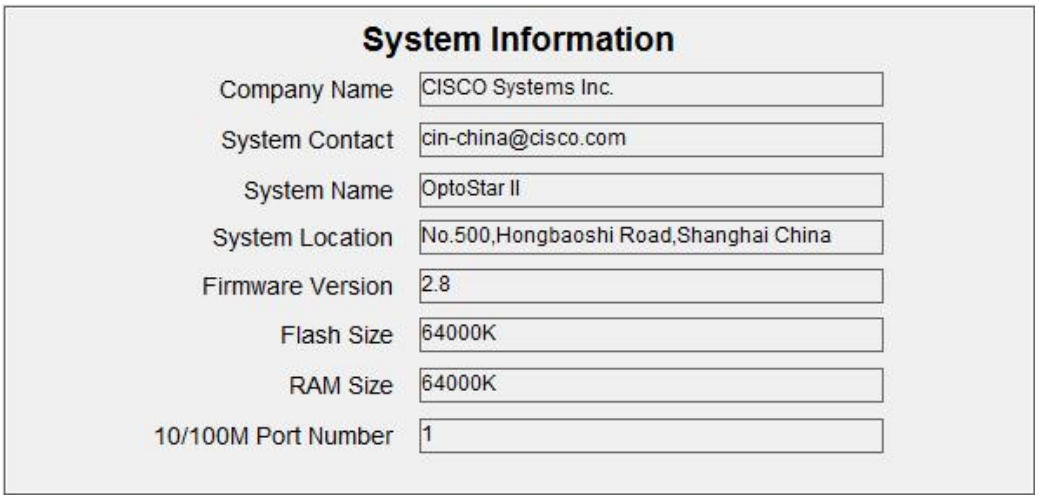
Move the cursor to the System menu to show menu information as below:



- System settings include system information, login user management, log off current user and exit.

System Information

Click the System Information option in the System menu to show the following interface:



- Users are unable to change the above system information.

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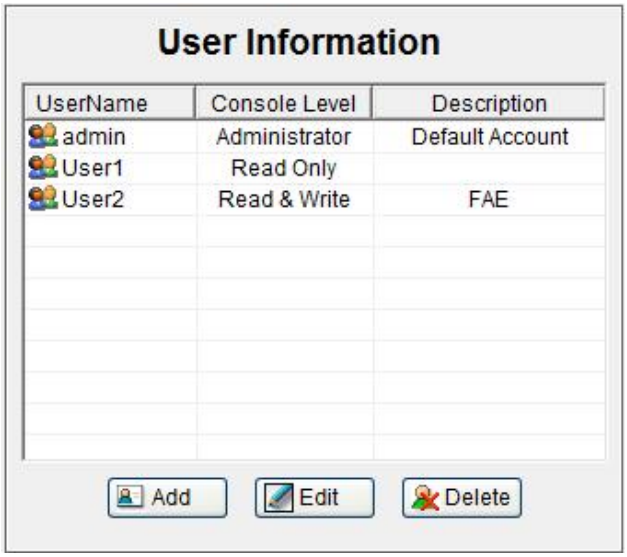
User Information

Click the User Information option in the System menu to show the following interface:

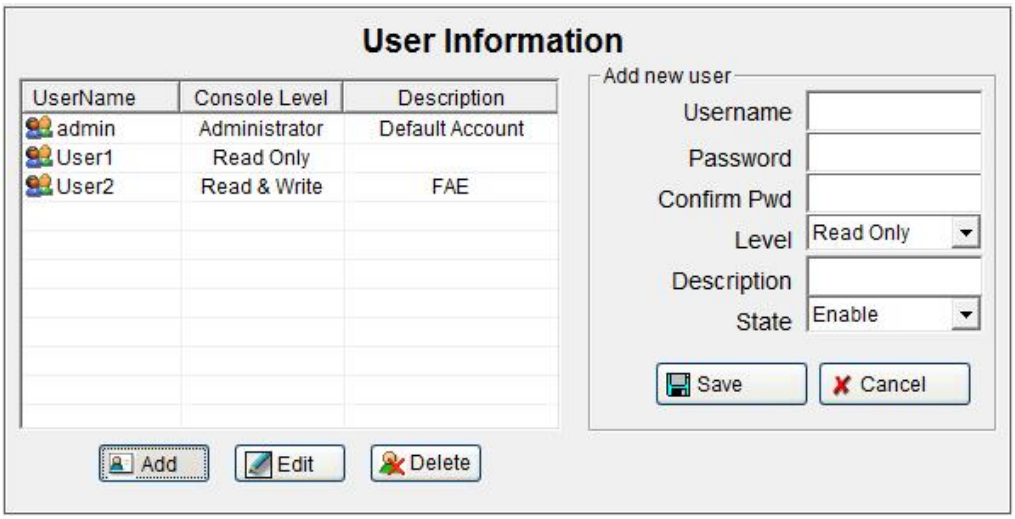


- The following table lists the functions with different permissions:

Permission	Function					
	Add User	**Delete User**	**Edit User**	**Change Password**	**Module Control**	**View Module**
Admin	√	√	√	√	√	√
Read-Write				√	√	√
Read-Only				√		√

Continued on next page

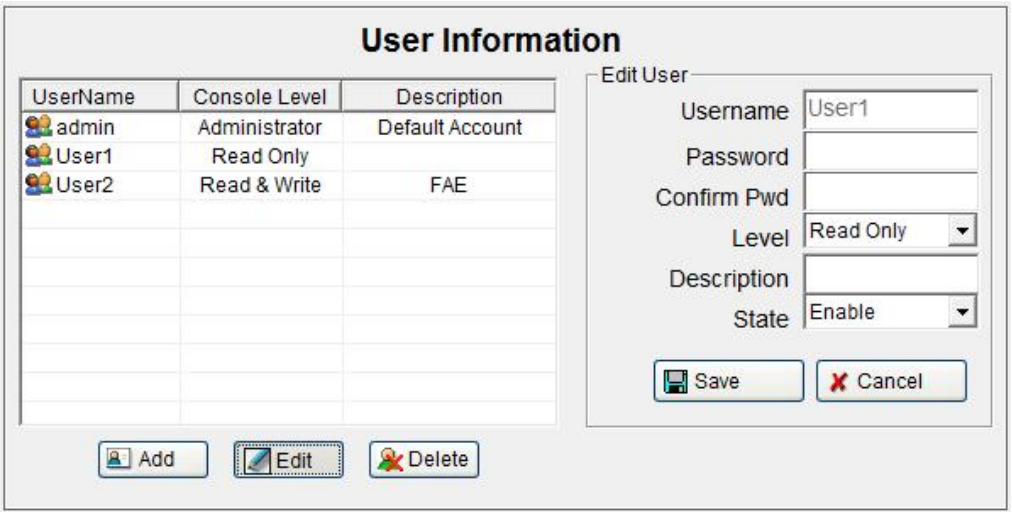
1. Click Add to show the following interface:



- Admin users can add other users according to their own needs.
- User name, password and description consist of less than 40 English characters (any combination of [a-z], [A-Z], [0-9], [_] and other characters).
- Operation permissions for the Console program have two options: Read-Only and Read-Write.

Note: When the admin user forgets the password, run the system reset program in the "OptoStar II" folder to restore factory settings of the entire system.

2. Click Edit to show the following interface:



- Admin users can edit the information of other users according to their own needs.

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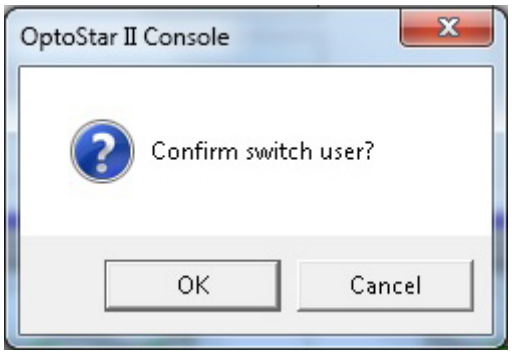
Switch User

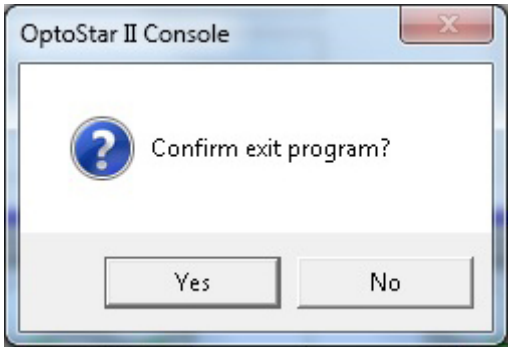
Click the Switch User option in the System menu to show the following interface:



- OK: Log off the system and return to the system login screen.
- Cancel: Cancel the logoff operation and return to the system interface.

Exit

Click the Exit option in the System menu or the red "X" at the right upper corner of the interface to show the following interface:



- Yes: Exit the system.
- No: Cancel the exit operation and return to the system interface.

Note: If you use English operation system of the PC, the interface's style is in English.

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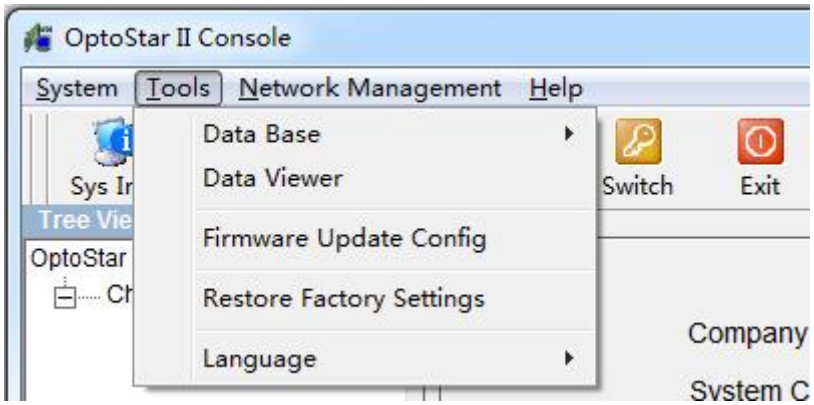
Tool Settings

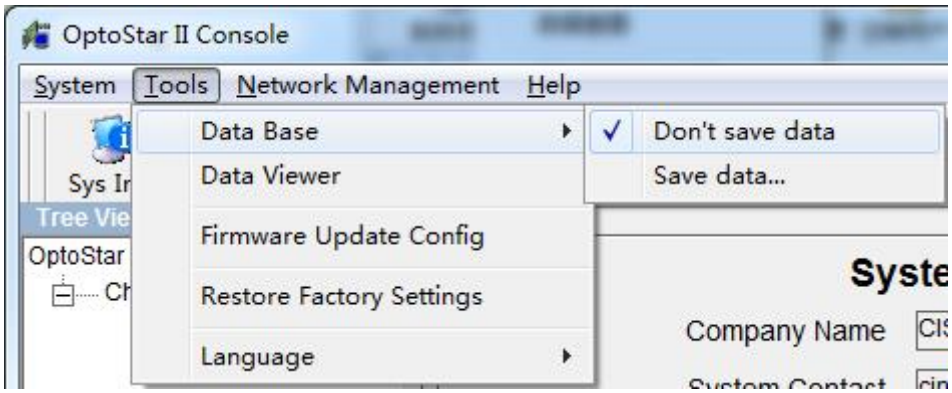
Move the cursor to the Tools menu to show menu information as below:



- Tool settings include database, view data, firmware upgrade settings, restore factory settings and language options.

Data Base

Move the cursor to the Data Base option in the Tools menu to show the interface as below:



- Data Base options include not saving data and saving data.

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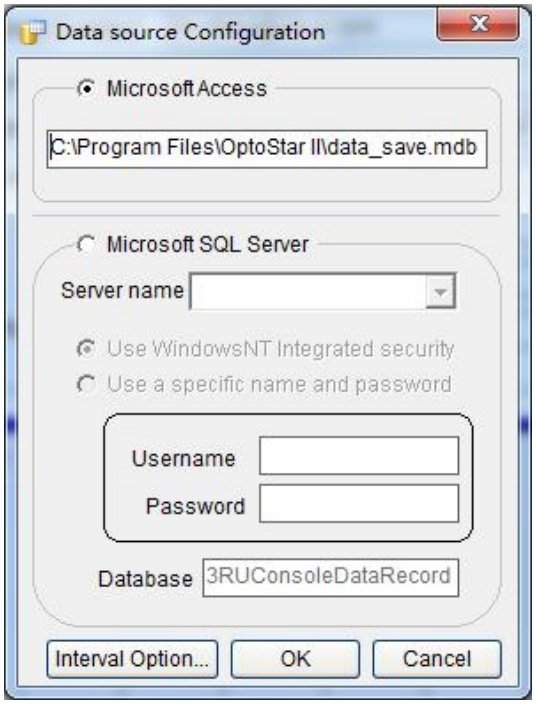
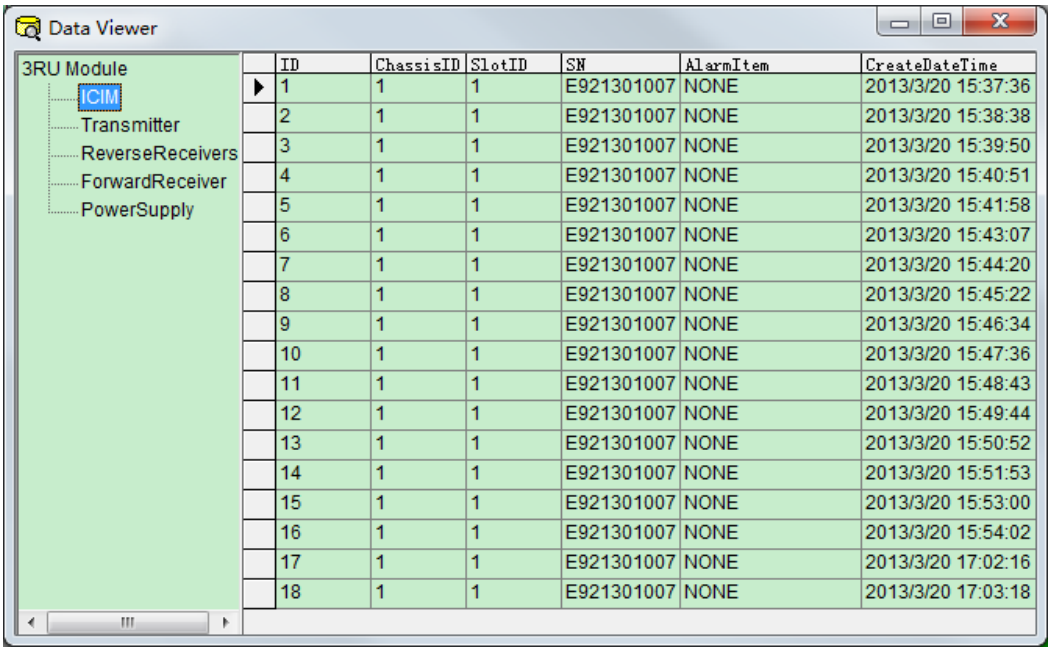
Click Save data… to show the following interface:



- Data source can be saved in Microsoft Access or Microsoft SQL Server.

View Data

Click the DataViewer option in the Tools menu to show the interface as below:



ID	ChassisID	SlotID	SN	AlarmItem	CreateDateTime
1	1	1	E921301007	NONE	2013/3/20 15:37:36
2	1	1	E921301007	NONE	2013/3/20 15:38:38
3	1	1	E921301007	NONE	2013/3/20 15:39:50
4	1	1	E921301007	NONE	2013/3/20 15:40:51
5	1	1	E921301007	NONE	2013/3/20 15:41:58
6	1	1	E921301007	NONE	2013/3/20 15:43:07
7	1	1	E921301007	NONE	2013/3/20 15:44:20
8	1	1	E921301007	NONE	2013/3/20 15:45:22
9	1	1	E921301007	NONE	2013/3/20 15:46:34
10	1	1	E921301007	NONE	2013/3/20 15:47:36
11	1	1	E921301007	NONE	2013/3/20 15:48:43
12	1	1	E921301007	NONE	2013/3/20 15:49:44
13	1	1	E921301007	NONE	2013/3/20 15:50:52
14	1	1	E921301007	NONE	2013/3/20 15:51:53
15	1	1	E921301007	NONE	2013/3/20 15:53:00
16	1	1	E921301007	NONE	2013/3/20 15:54:02
17	1	1	E921301007	NONE	2013/3/20 17:02:16
18	1	1	E921301007	NONE	2013/3/20 17:03:18

- Data viewer can display the historical data of all current modules.

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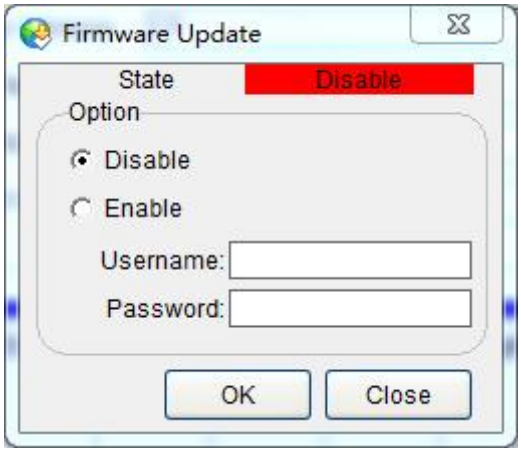
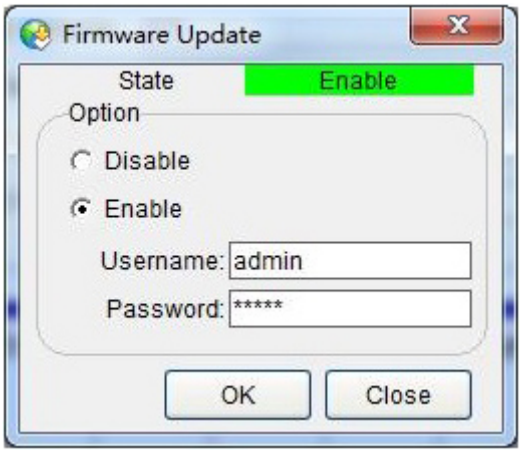
Firmware Update Configuration

Click the Firmware Update Configuration option in the Tools menu to show the interface as below:



- Disable indicates that the current ICIM does not support the remote update feature.

To perform remote firmware update, select Enable, input the user name and password, and select OK. After setting successfully, the following interface will appear:



- Enable indicates that the current ICIM supports remote update.
- **Note:** This user name and password can be only used for remotely updating the ICIM firmware.

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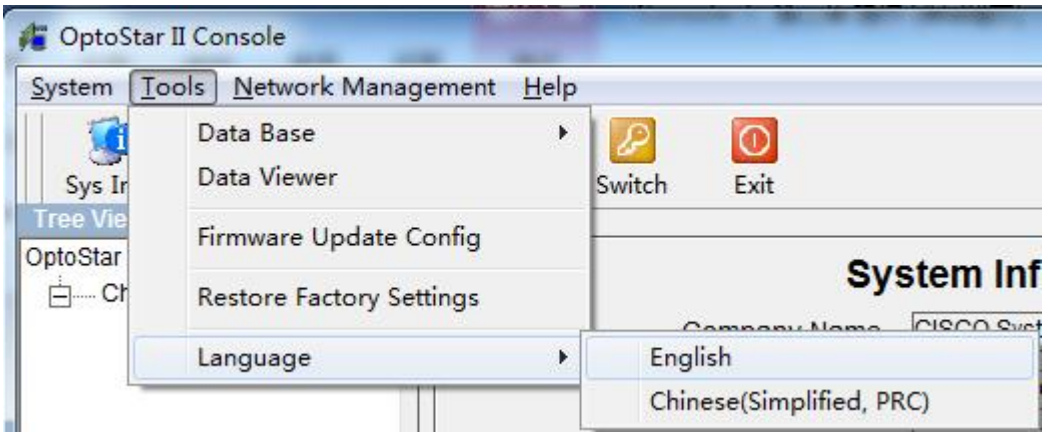
Restore Factory Settings

Click the Restore Factory Settings option in the Tools menu to show the interface as below:

- Yes: Restore ICIM factory settings.
- No: Cancel the restoring operation and return to the system interface.

Language Options

Move the cursor to the Language option in the Tools menu to show the interface as below:



- Users can change current system language according to their own needs: English or Chinese (Simplified, PRC).

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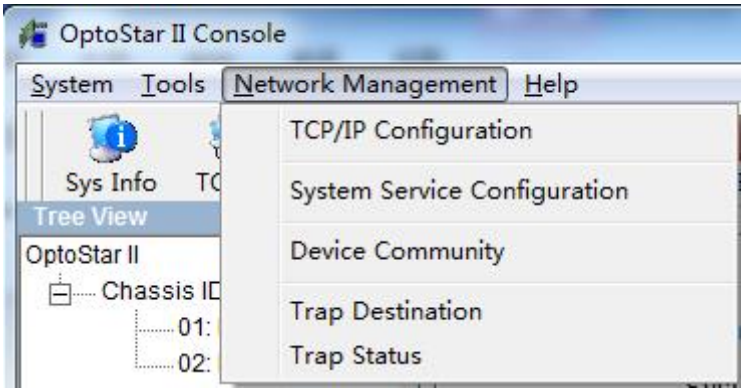
Network Management

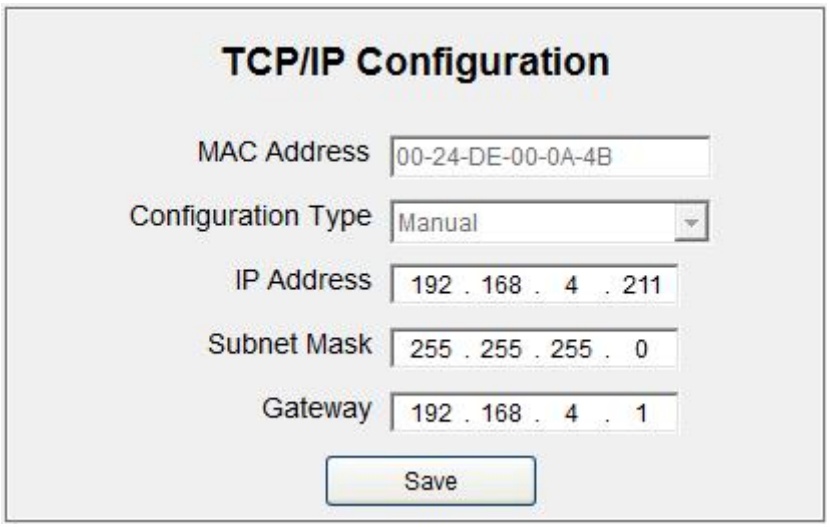
Move the cursor to the Network Management menu to show menu information as below:



- Network Management includes TCP/IP Configuration, System Service Configuration, Device Community, Trap Destination and Trap Status.

TCP/IP Configuration

Click the TCP/IP Configuration option in the Network Management menu to show the interface as below:



- TCP/IP Configuration includes MAC Address, Configuration Type, IP address, Subnet Mask, and Gateway.
- Users can change the following parameters according to their own needs: IP Address, Subnet Mask, and Gateway.

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System Service Configuration

Click the System Service Configuration option in the Network Management menu to show the interface as below:

- Enable: The OptoStar II NMS allows access to the ICIM.
- Disable: Access to the OptoStar II NMS is interrupted, i.e., the OptoStar II NMS software cannot access to the ICIM.

Device Community

Click the Device Community option in the Network Management menu to show the interface as below:

- Device community includes Index, Community, Description, state, and Level.

1. Index: 1 - 10
2. Community: Users can change the properties according to their own needs
3. Description: Users can change the description according to their own needs
4. State: select Enable to activate current community; select Disable to deactivate current community.
5. Permission: Read-Write or Read-Only.

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Trap Destination

Click the Trap Destination option in the Network Management menu to show the interface as below:

- Users can change the Trap sending status, input Trap destination, and add description according to their own needs.

  Note: It's available to send Trap to at most 8 different addresses.

Continued on next page

Trap Status

Click the Trap Status option in the Network Management menu to show the interface as below:

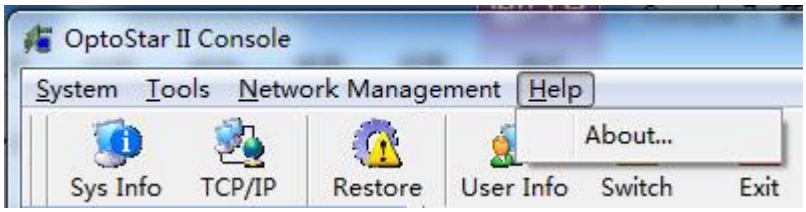
- Trap status includes Cold Start, Warm Start, Authentication Failure, and Enterprise Specific.

1. [Read-Only] Cold Start: Display the Trap status when the ICIM sends cold start.
2. [Read-Only] Warm Start: Display the Trap status when the ICIM sends warm start.
3. [Read-Only] Authentication Failure: Display whether the ICIM sends authentication failure Trap.
4. [Read-Only] Enterprise Specific: Display whether the ICIM sends enterprise specific code Trap.

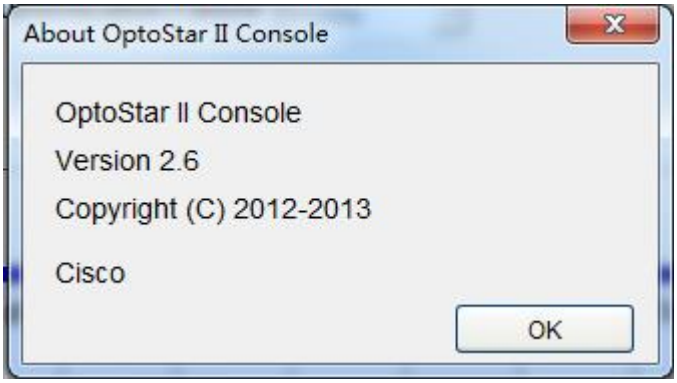
Continued on next page

Help

Move the cursor to the Help menu to show menu information as below:

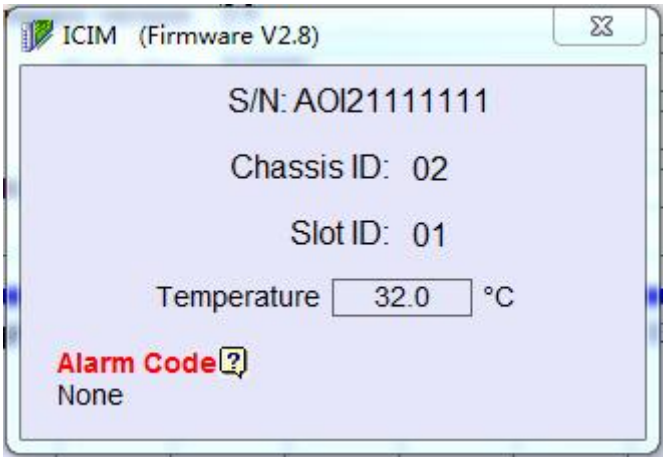


- Click the About... option in the Help menu to show the interface as below:



Intelligent Communications Interface Module (ICIM)

Click to select the OptoStar II intelligent communications interface module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the intelligent communications interface module will pop up as shown below.



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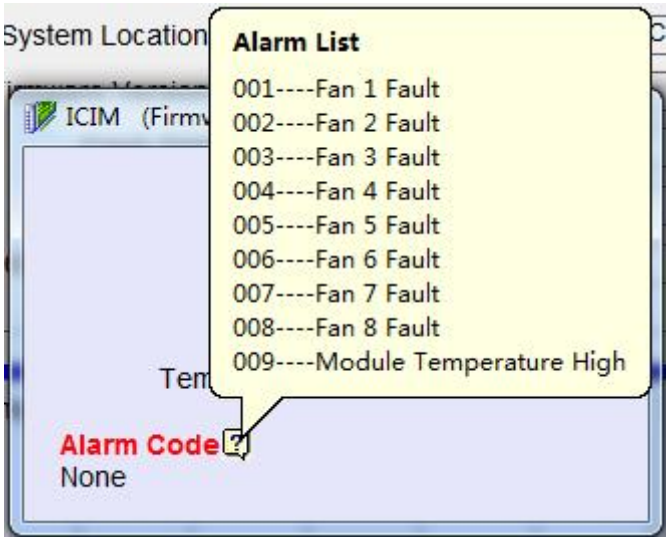
Basic Parameter

The table below lists the basic parameters of the OptoStar II intelligent communications interface module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Module Temperature	Shows the current module temperature (°C)
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



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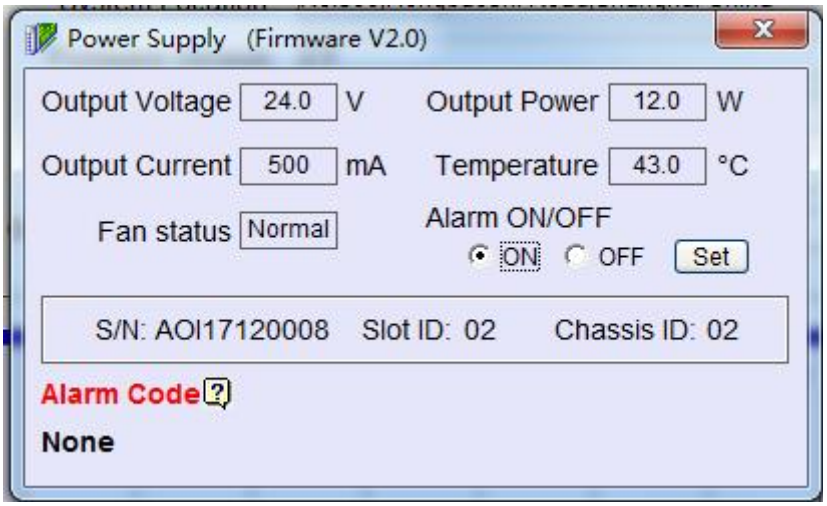
Power Supply Module

Click to select the OptoStar II power supply module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the power supply module will pop up as shown below.



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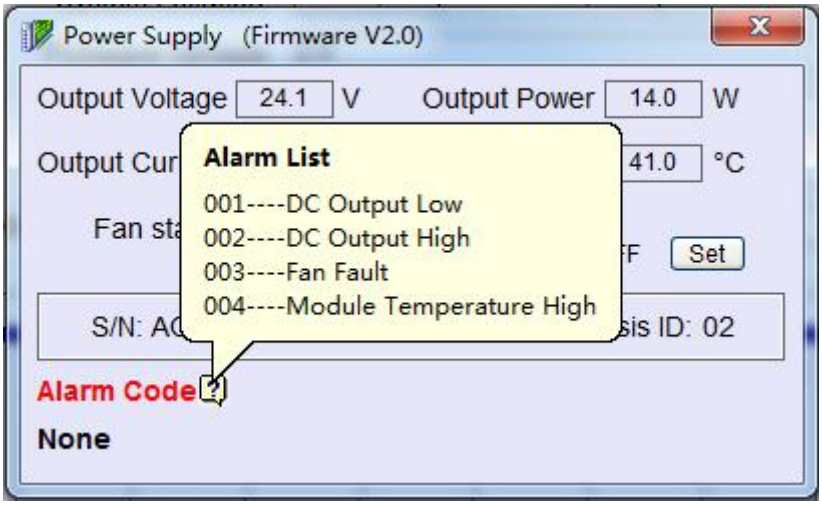
Basic Parameter

The table below lists the basic parameters of the OptoStar II power supply module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Output Voltage	Shows output voltage (V) of the module
Output Power	Shows output power (W) of the module
Output Current	Shows output current (mA) of the module
Module Temperature	Shows the current module temperature (°C)
Fan Status	Shows if the fan of the power supply is in normal status
S/N	Shows module serial number
Slot ID	Shows the ID of the slot where the module is placed
Rack ID	Shows the ID of the rack where the chassis is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Codeto show the alarm list as below:



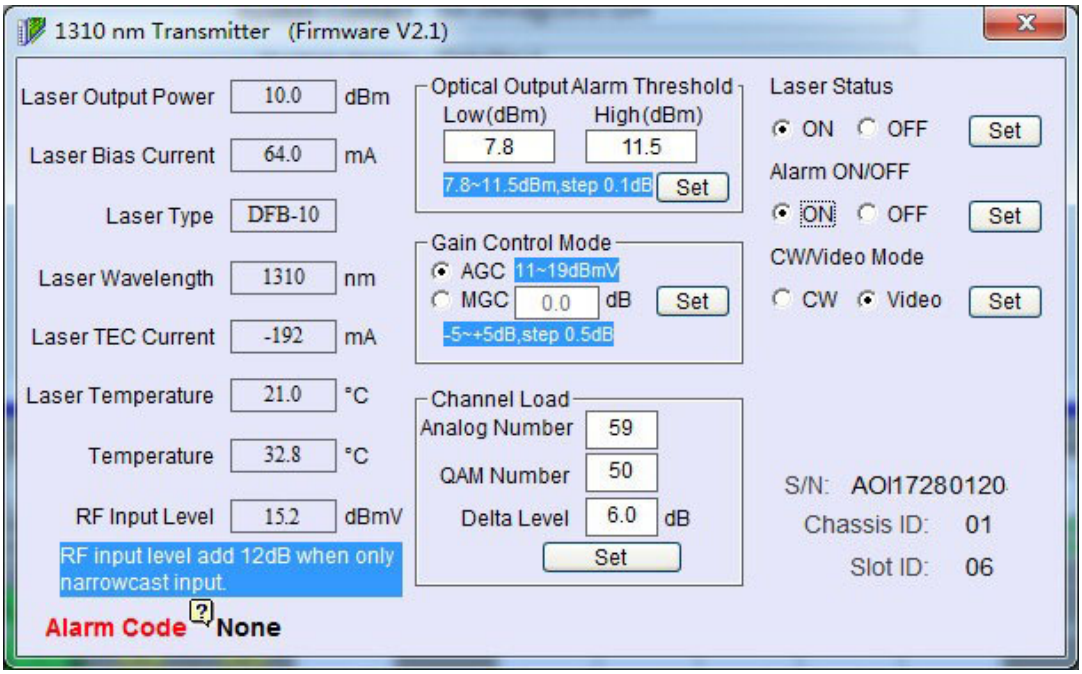
Setup Parameters

The table below lists the alarm parameter settings of the OptoStar II power supply module.

Setup Parameters	Description	Factory Default
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON

1310 nm Forward Transmitter Module

Click to select the OptoStar II 1310 nm forward transmitter module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the1310 nm forward transmitter module will pop up as shown below.

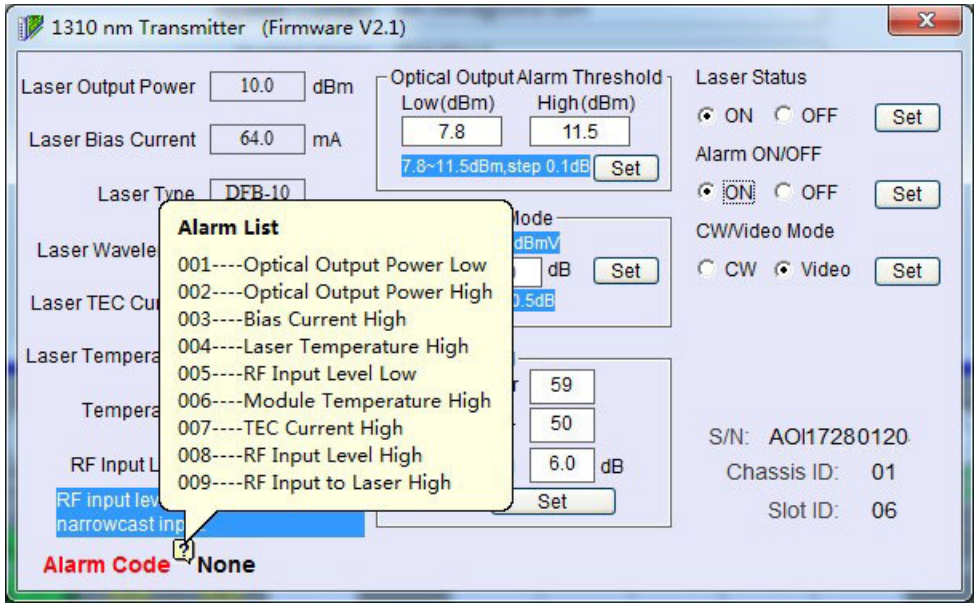


Continued on next page

Basic Parameter

The table below lists the basic parameters of the OptoStar II 1310 nm forward transmitter module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Optical Output Power	Shows optical output power (dBm)
Laser Bias Current	Shows laser bias current (mA)
Laser Type	Shows laser type
RF Input Level	Shows RF input level (dBmV)
Wavelength	Shows wavelength (nm)
Cooling Current	Shows cooling current (mA)
Laser Temperature	Shows laser temperature (°C)
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



Continued on next page

Setup Parameters

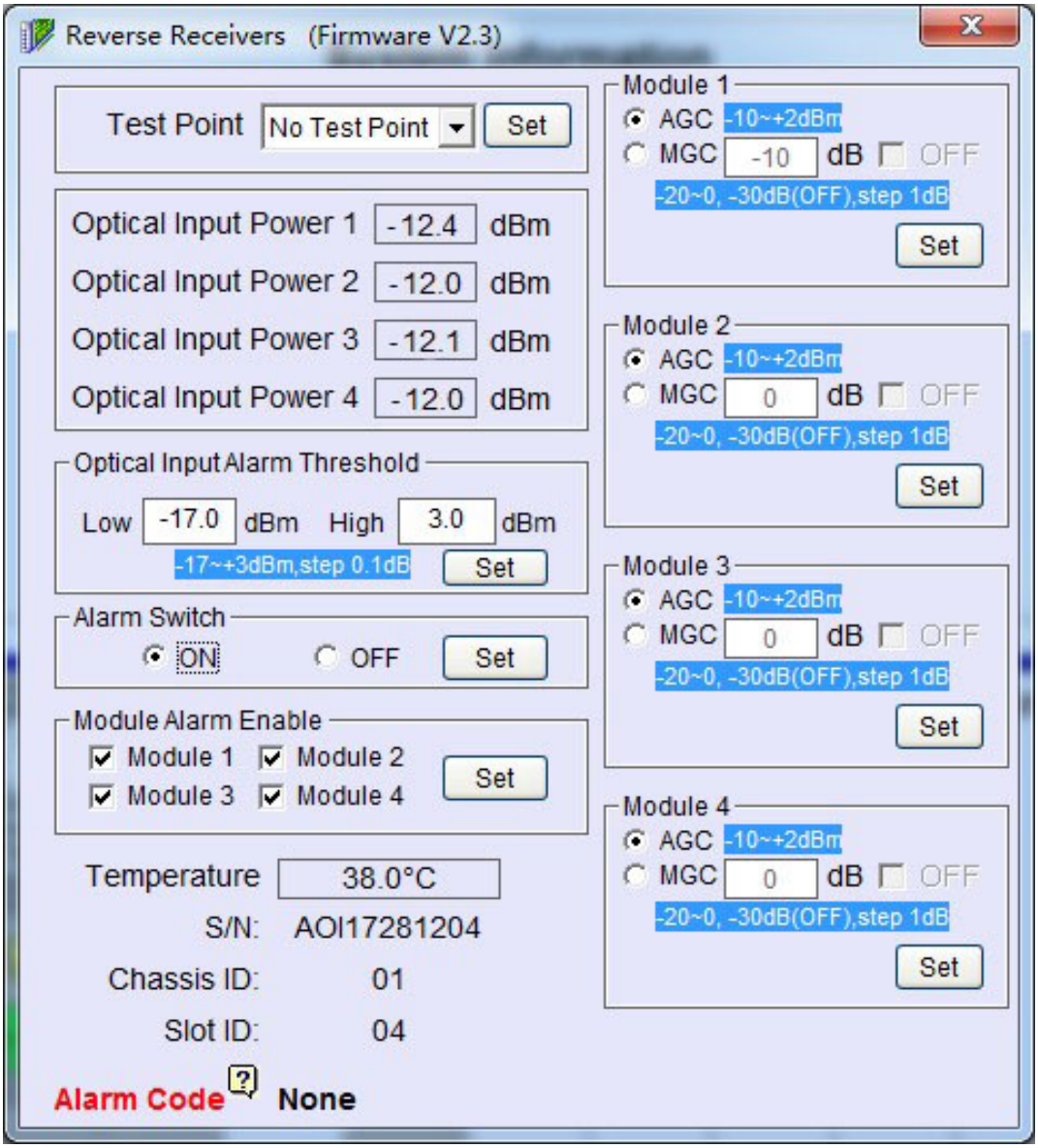
The table below lists the setup parameters of the OptoStar II 1310 nm forward transmitter module.

Setup Parameters	Description	Factory Default
Optical Alarm Threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: standard value -2.2 dB; Upper limit: standard value +1.5 dB
Gain Control Mode Selection	Shows/sets AGC or MGC gain control mode	AGC mode (MGC gain setting is 0 dB)
Channel Load	Shows/sets analog channel number, QAM channel number, and delta level (dB)	Broadcast RF Input Port analog channel number: 59; QAM channel number: 50; Delta level: 6.0 dB
Laser Status ON/OFF	Shows/sets laser status: ON/OFF	Laser Status: ON
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON
CW/Video Mode Selection	Shows/sets CW/video mode: CW/video	Video mode

Continued on next page

Reverse Receiver Module

Click to select the OptoStar II reverse receiver module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the reverse receiver module will pop up as shown below.

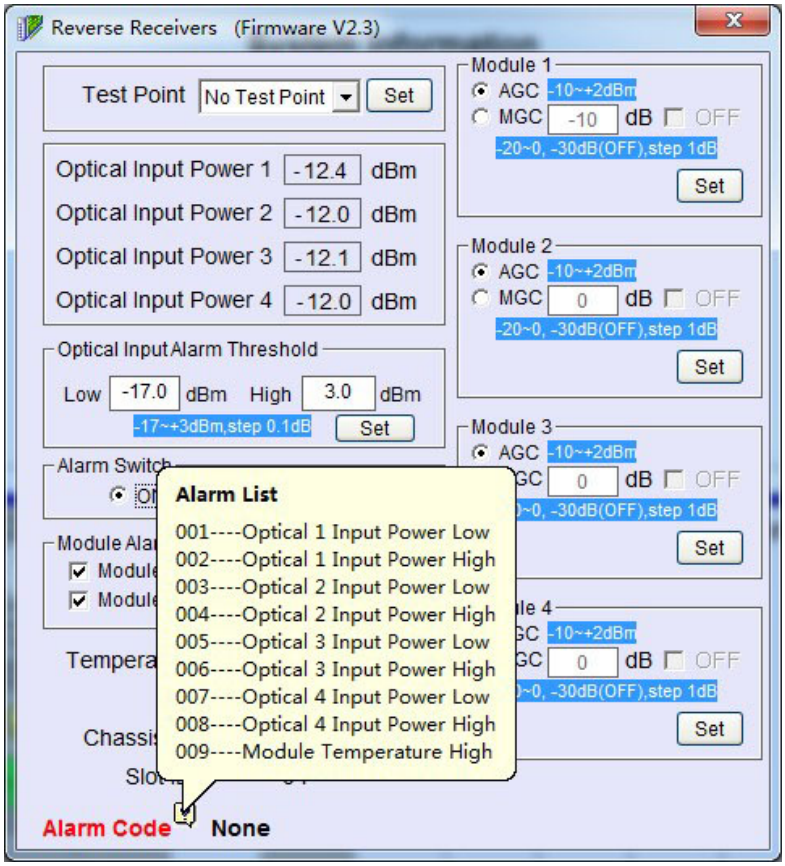


Continued on next page

Basic Parameter

The table below lists the basic parameters of the OptoStar II reverse receiver module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Four-Way Module Optical Input Power	Shows the optical input power (dBm)
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



Continued on next page

Setup Parameters

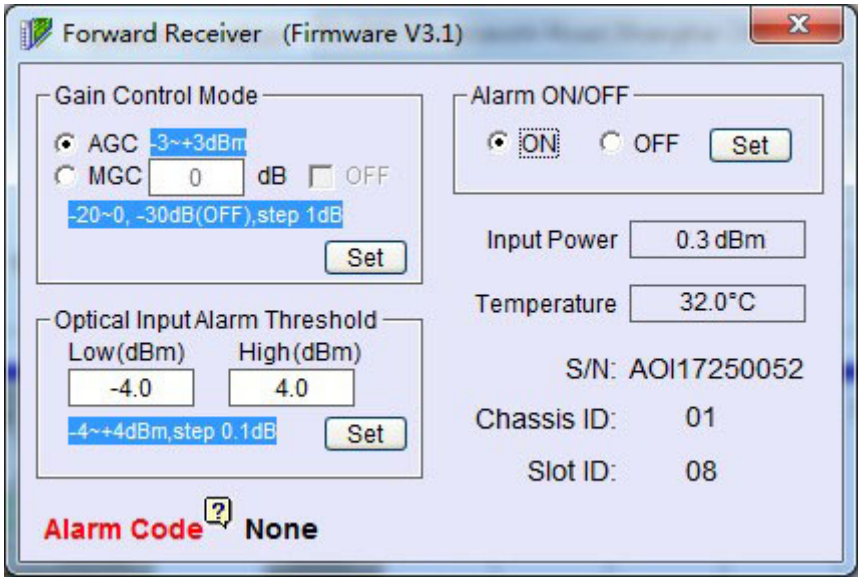
The table below lists the setup parameter of the OptoStar II reverse receiver module.

Setup Parameters	**Description**	**Factory Default**
Optical Alarm Threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: - 17.0 dB Upper limit: + 3.0 dB
Module Alarm Options	Display/set module alarm options	Four-way modules are all in ON status
Test Point	Display/set test points for different modules	No test point
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF The Alarm ON/OFF corresponds to the selection of module alarm status, for example: When you only need to monitor Module 1 and Module 2, the Alarm ON/OFF for Module 1 and Module 2 will be switched to ON.	Alarm status: ON
Four-Way Module Gain Control Mode	Shows/sets AGC or MGC gain control mode	Four-way modules are all in AGC mode (gain in MGC mode is set to 0 dB)

Continued on next page

Forward Receiver Module

Click to select the OptoStar II forward receiver module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the forward receiver module will pop up as shown below.

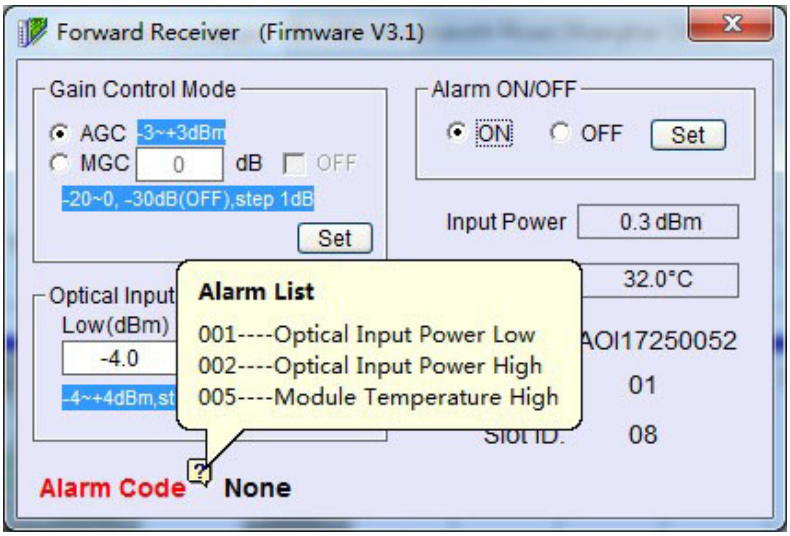


Continued on next page

Basic Parameter

The table below lists the basic parameters of the OptoStar II forward receiver module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Optical Input Power	Shows optical input power (dBm)
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



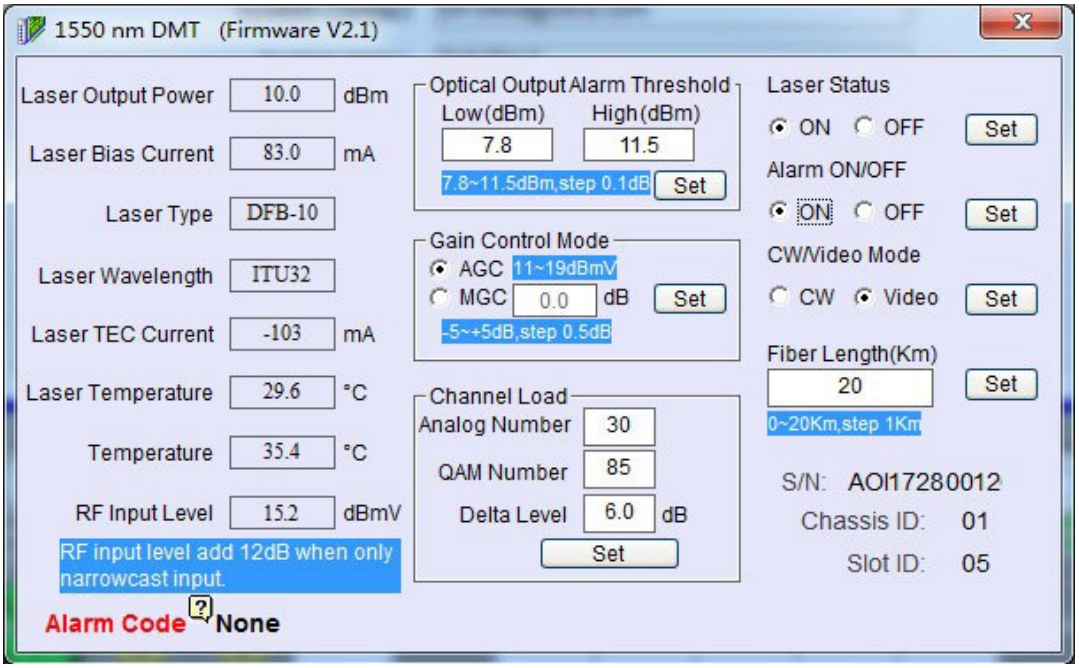
Setup Parameters

The table below lists the setup parameter of the OptoStar II forward receiver module.

Setup Parameters	Description	Factory Default
Optical Alarm Threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: -4.0 dB Upper limit: +4.0 dB
Gain Control Mode Selection	Shows/sets AGC or MGC gain control mode	AGC mode (MGC gain setting is 0 dB)
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON

1550 nm DWDM forward direct modulation transmitter module

Click to select the OptoStar II 1550 nm DWDM forward direct modulation transmitter module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the 1550 nm DWDM forward direct modulation transmitter module will pop up as shown below.

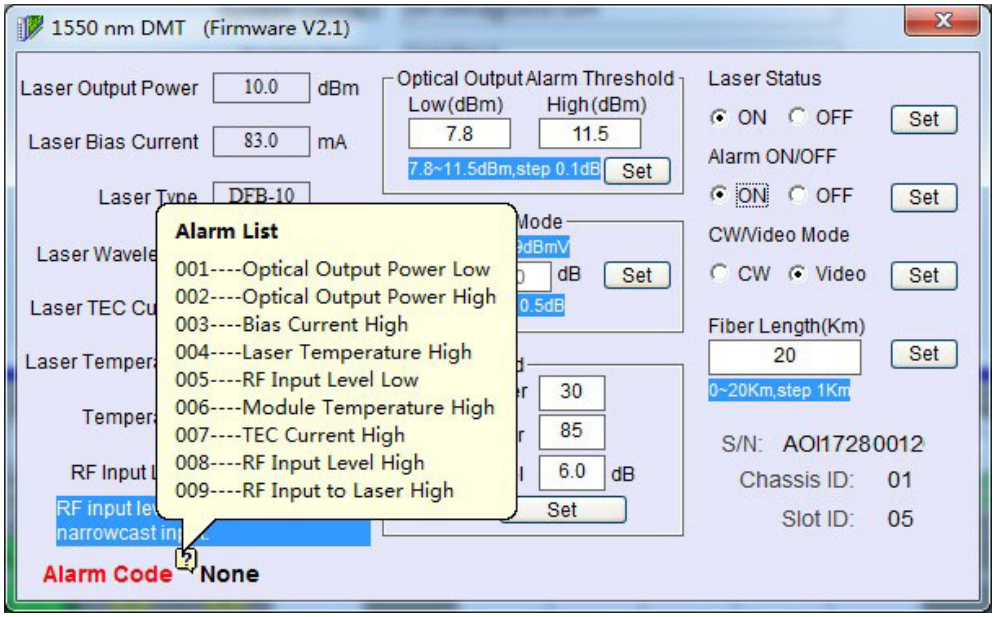


Continued on next page

Basic Parameter

The table below lists the basic parameters of the OptoStar II 1550 nm DWDM forward direct modulation transmitter module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Optical Output Power	Shows optical output power (dBm)
Laser Bias Current	Shows laser bias current (mA)
Laser Type	Shows laser type
RF Input Level	Shows RF input level (dBmV)
Wavelength	Shows ITU wavelength
Cooling Current	Shows cooling current (mA)
Laser Temperature	Shows laser temperature (°C)
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



Continued on next page

Setup Parameters

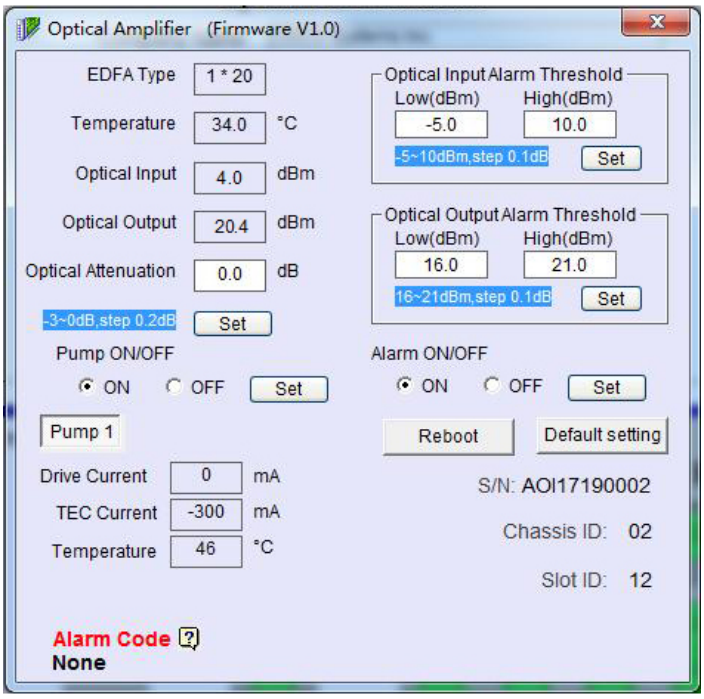
The table below lists the setup parameters of the OptoStar II 1550 nm DWDM forward direct modulation transmitter module.

Setup Parameters	Description	Factory Default
Optical Alarm Threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: standard value - 2.2 dB Upper limit: standard value +1.5 dB
Gain Control Mode Selection	Shows/sets AGC or MGC gain control mode	AGC mode
Channel Load	Shows/sets analog channel number, QAM channel number, and delta level (dB)	Analog channel number: 30 QAM channel number: 85 Delta level: 6.0 dB
Laser Status ON/OFF	Shows/sets laser status: ON/OFF ON/OFF	Laser Status: ON
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON
CW/Video Mode Selection	Shows/sets CW/Video mode: CW/Video	Video mode
Fiber Length	Sets fiber length	20km 1550 nm DMT default value: 20 km 10km 1550 nm DMT default value: 10 km

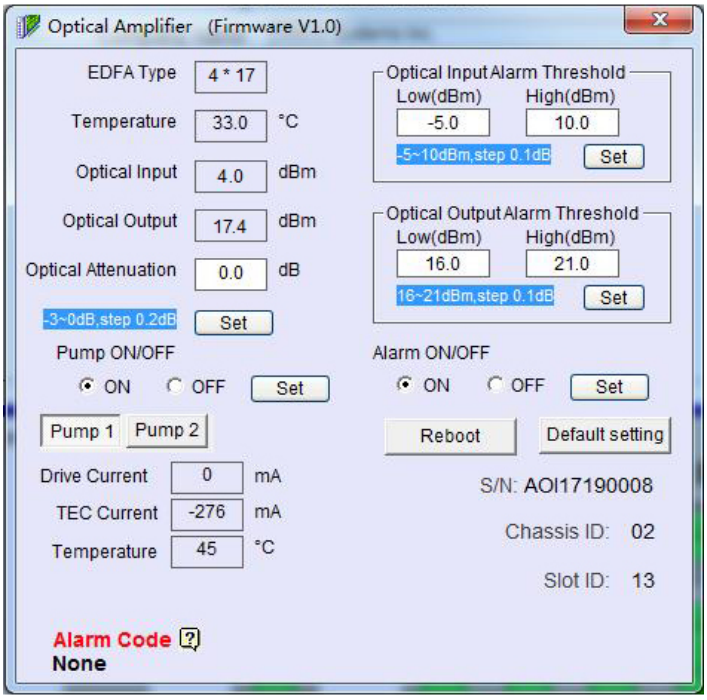
Continued on next page

1550 nm Optical Amplifier Module

Click to select the OptoStar II 1550 nm optical amplifier module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the 1550 nm optical amplifier module will pop up as shown below. The illustration below shows the parameter settings interface of the module with 1 pump:



The illustration below shows the parameter settings interface of the module with 2 pumps:

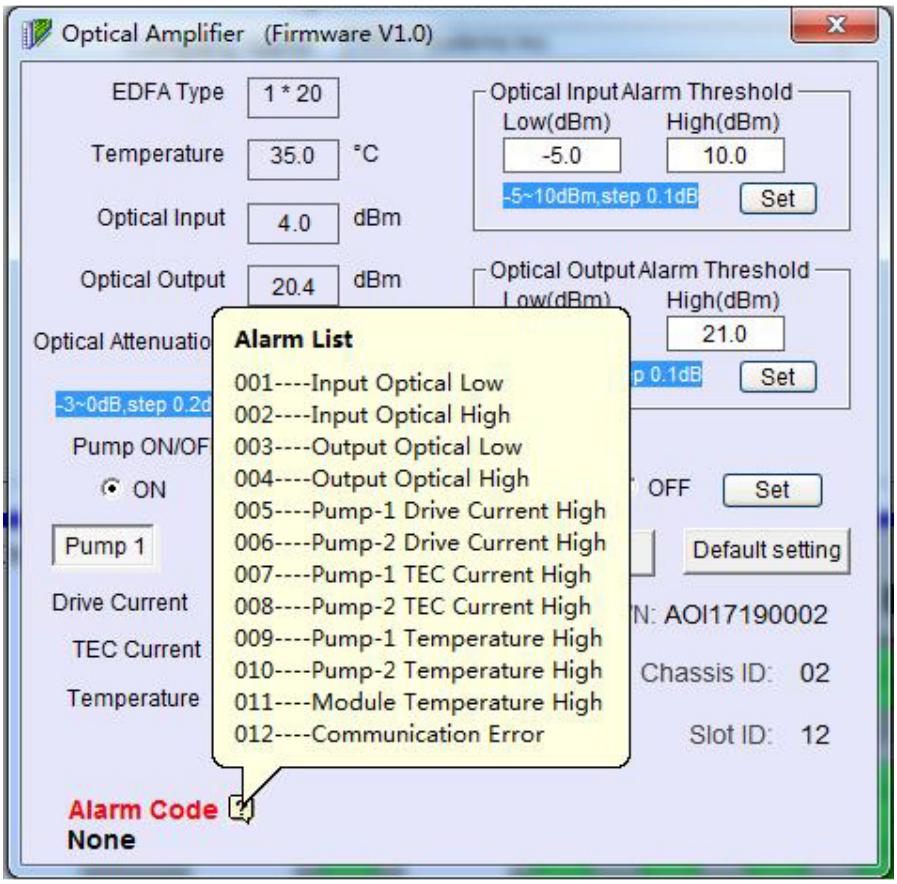


Basic Parameter

The table below lists the basic parameters of the OptoStar II 1550 nm optical amplifier module.

Basic Parameter	**Description**
Module Name and Firmware Version	Shows the module name and its firmware version
Type of the Optical Amplifier Module	Shows the type of the Optical Amplifier Module
Output Port	Shows number of optical output ports
Module Temperature	Shows the current module temperature (°C)
Optical Input Power	Shows optical input power (dBm)
Optical Output Power	Shows optical output power (dBm)
Laser Temperature	Shows laser temperature (°C)
Drive Current	Shows laser drive current (mA)
Cooling Current	Shows laser cooling current (mA)
Laser Temperature	Shows laser temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:

Continued on next page



Setup Parameters

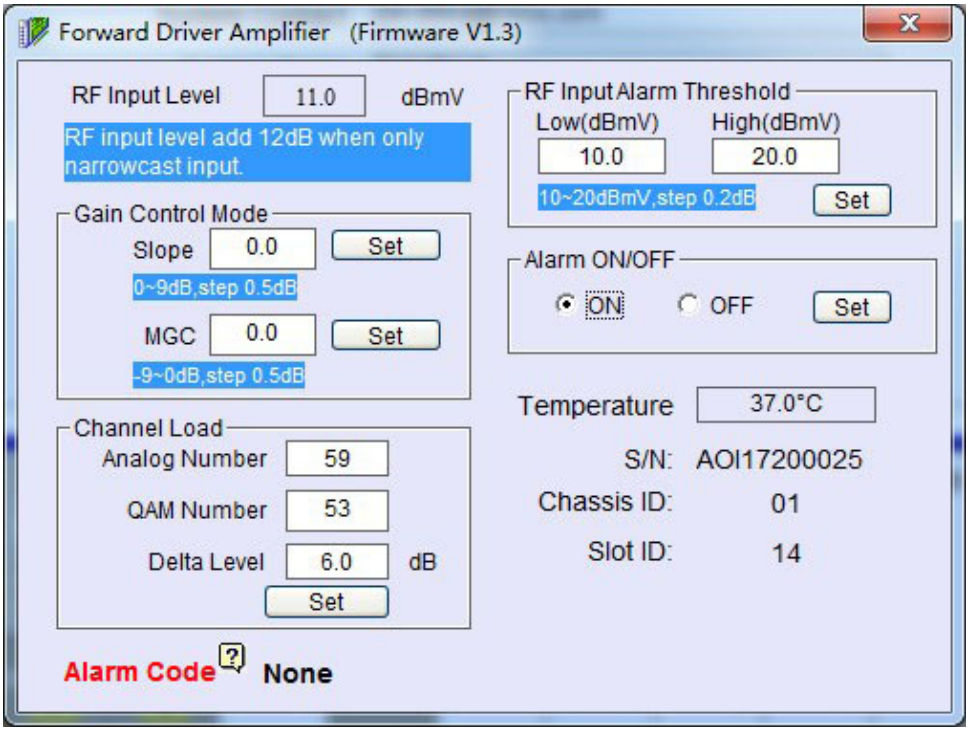
The table below lists the alarm parameter settings of the OptoStar II 1550 nm optical amplifier module.

Setup Parameters	Description	Factory Default
Laser Status ON/OFF	Shows / sets laser status: ON/OFF	Laser Status: OFF
Input optical power alarm threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: - 5.0 dBm Upper limit: + 10.0 dBm
Output optical power alarm threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: standard value - 4. 0 dBm; Upper limit: standard value +1. 0 dBm
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON
Restart setting	Sets up restart of the optical amplifier module	--
Factory Setting	Restores the factory settings of the optical amplifier module	--

Continued on next page

Forward Driver Amplifier Module

Click to select the OptoStar II forward driver amplifier module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the forward driver amplifier module will pop up as shown below.



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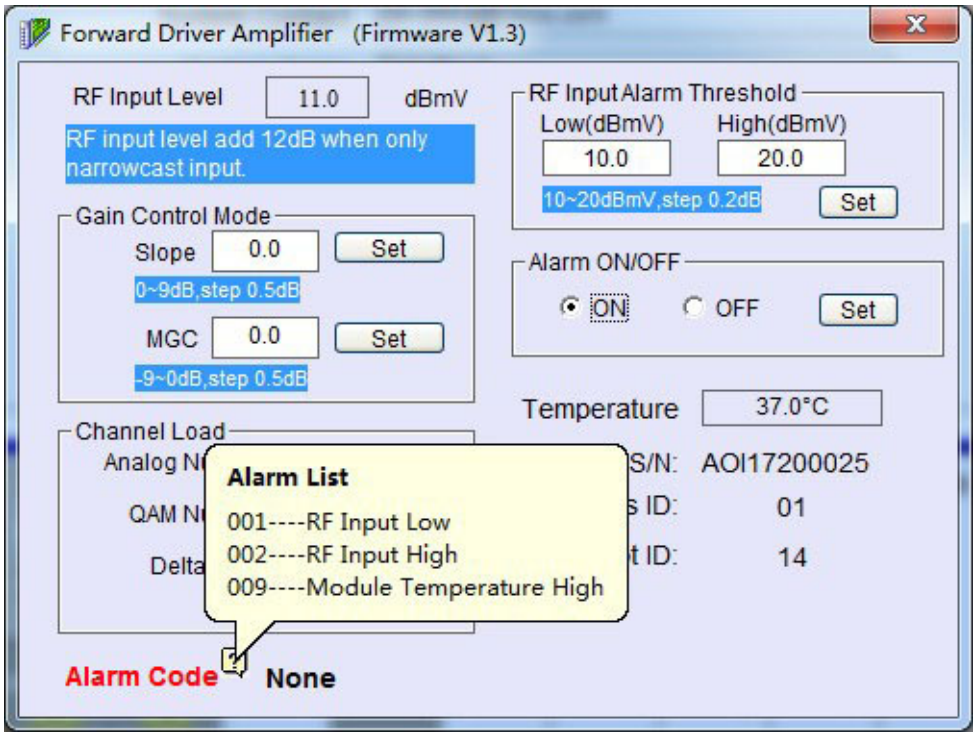
Basic Parameter

The table below lists the basic parameters of the OptoStar II forward driver amplifier module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
RF Input Level	Shows RF input level (dBmV)
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



Continued on next page

Setup Parameters

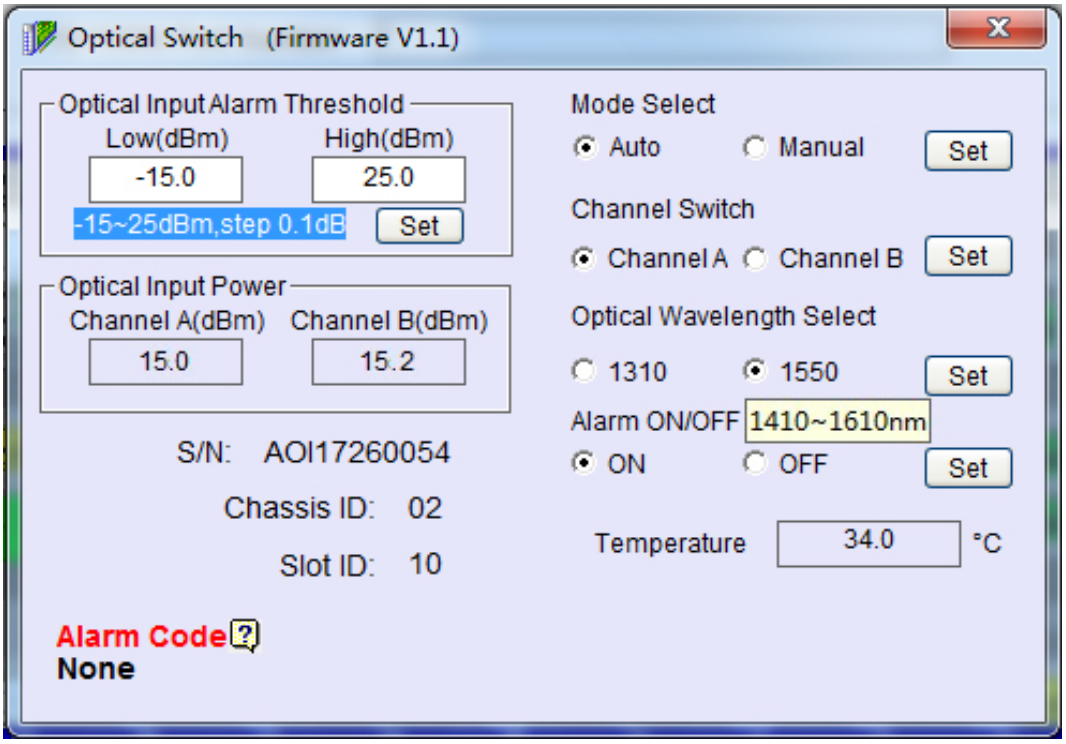
The table below lists the parameter settings of the OptoStar II forward driver amplifier module.

Setup Parameters	Description	Factory Default
RF Input Alarm Threshold	Shows/sets upper limit and lower limit of RF input alarm	Lower limit: 10 dBmV Upper limit: 20 dBmV
Output Signal Slope Settings	Output signal slope settings (range: 0~9 dB)	0 dB
Output Signal Gain Settings	Output signal gain settings (range: -9~0 dB)	0 dB
Channel Load	Shows/sets analog channel number, QAM channel number, and delta level (dB)	Analog channel number: 59 QAM channel number: 53 Delta level: 6. 0 dB
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON

Continued on next page

Optical Switch Module

Click to select the OptoStar II optical switch module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the optical switch module will pop up as shown below.



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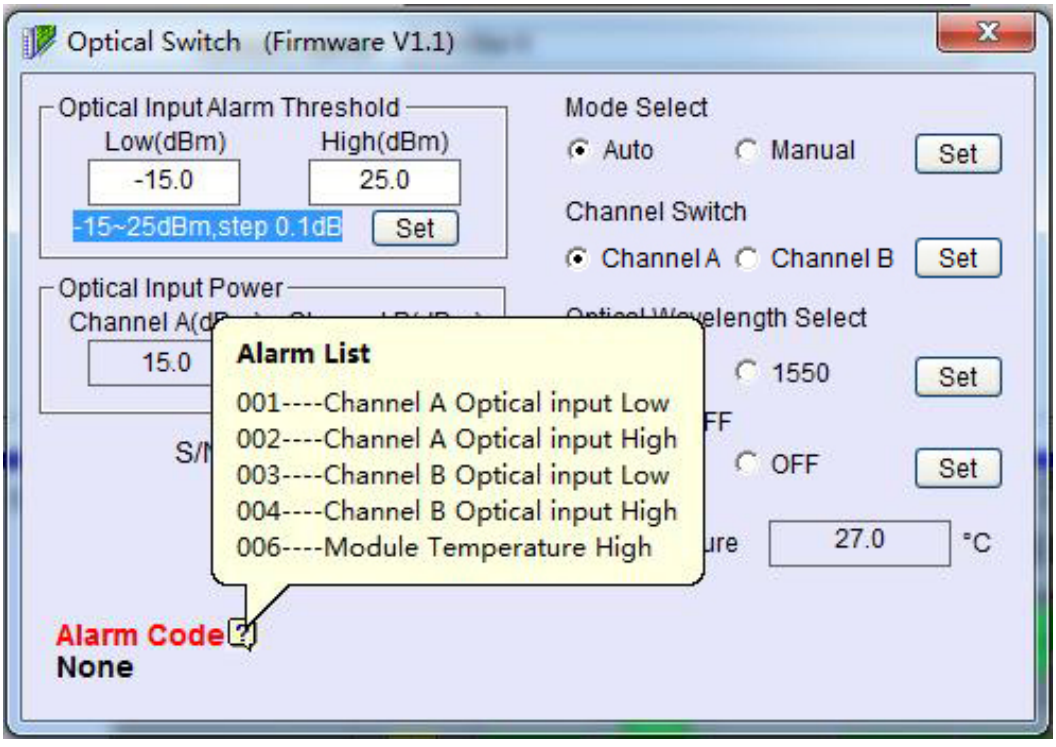
Basic Parameter

The table below lists the basic parameters of the OptoStar II optical switch module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Optical Input Power in Channel A/B	Shows optical input power(dBm) in channel A/B
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



Continued on next page

Setup Parameters

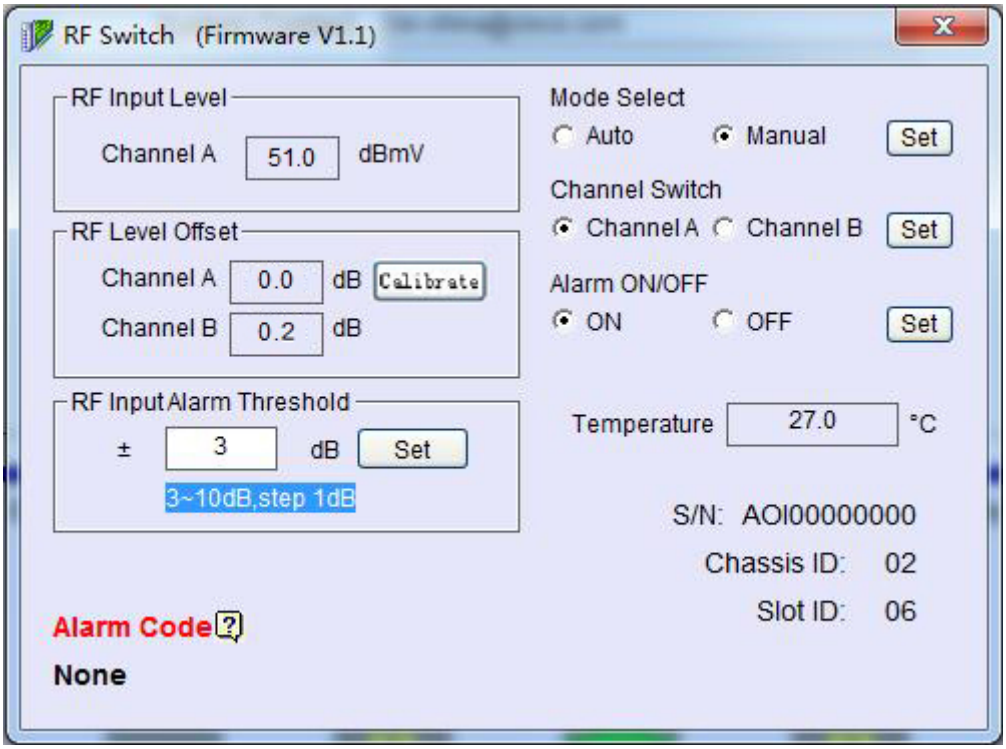
The table below lists the alarm parameter settings of the OptoStar II optical switch module.

Setup Parameters	Description	Factory Default
Optical Alarm Threshold	Shows/sets optical alarm upper limit and lower limit	Lower limit: -15 dBm Upper limit: 25 dBm
Automatic and Manual Switch Mode Selection	Shows/sets automatic and manual switch mode	Automatic switch mode
Channel A/B Selection	Shows/sets channel A/B	Channel A
Optical Wavelength Settings	Sets optical input wavelength	1310 nm (1270 nm ~ 1410 nm)
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON

Continued on next page

RF Switch Module

Click to select the OptoStar II RF switch module in the Local Module Tree View on the left side of the screen, or in the Local Module View on the bottom of the screen. The parameter setting window of the RF switch module will pop up as shown below.

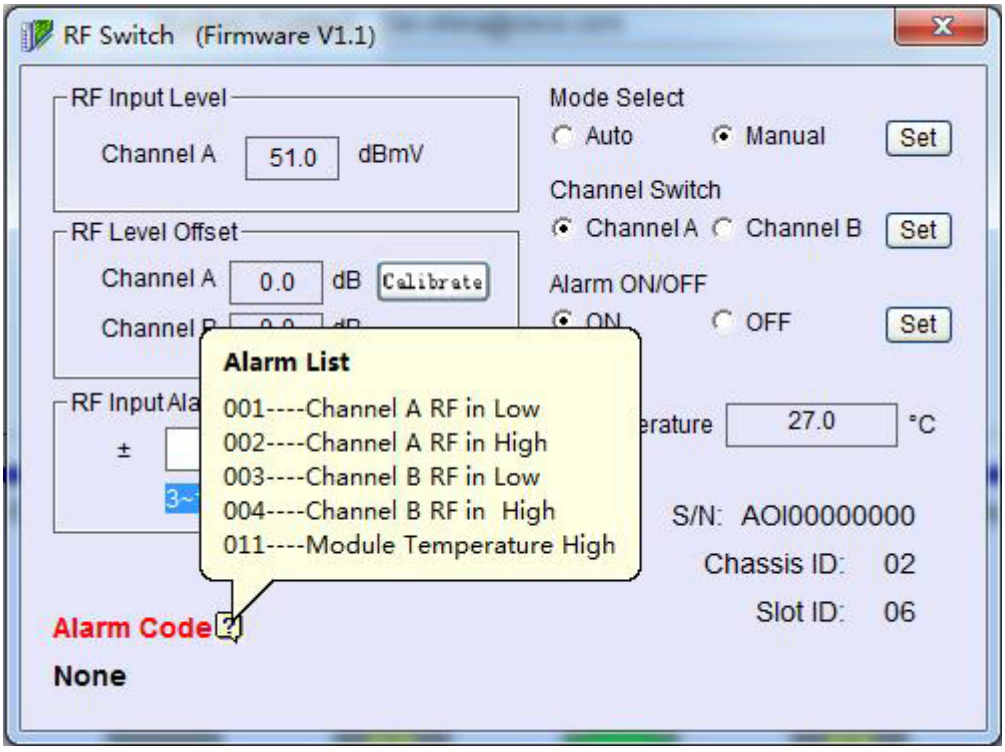


Continued on next page

Basic Parameter

The table below lists the basic parameters of the OptoStar II RF switch module.

Basic Parameter	Description
Module Name and Firmware Version	Shows the module name and its firmware version
Module Temperature	Shows the current module temperature (°C)
S/N	Shows module serial number
Rack ID	Shows the ID of the rack where the chassis is placed
Slot ID	Shows the ID of the slot where the module is placed
Alarm Code	Shows the current module alarm code Move the cursor to the question mark at the right side of the Alarm Code to show the alarm list as below:



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Setup Parameters

The table below lists the parameter settings of the OptoStar II RF switch module.

Setup Parameters	Description	Factory Default
Channel A/B Level Value	Shows channel A/B level value, and calibrates (dB)	Channel A is calibration value for reference
Threshold Settings	Sets alarm threshold	+/- 3 dB
Automatic and Manual Switch Mode Selection	Shows/sets automatic and manual switch mode	Automatic Switch Mode
Channel A/B Selection	Shows/sets channel A/B	Channel A
Alarm ON/OFF	Shows/sets module alarm status: ON/OFF	Alarm status: ON

Continued on next page

Web Client Software Operation

This section introduces the procedures to operate the OptoStar II Web Client software.

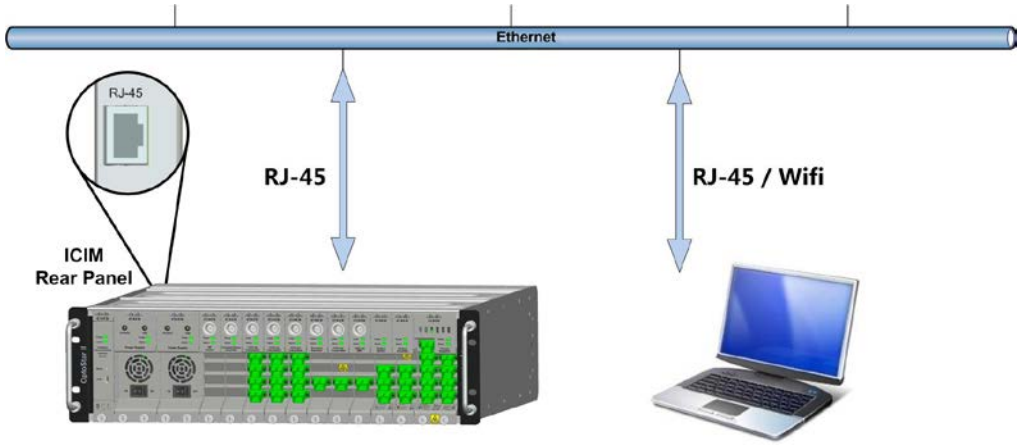
Before You Begin

One PC

Start

1. Make sure that the fiber and RF cables of relevant modules of the OptoStar II platform have been connected.
2. Turn the front panel switch of the OptoStar II power supply module to ON position. The power supply module and the other modules will initialize for about 5 seconds, and the ICIM will load for about 25 seconds.

   Note: The system will achieve optimal working condition after one hour's warm-up.
3. When the device initialization is complete, connect to the Ethernet with the RJ-45 connector on the rear panel of the ICIM. Connect the PC to the Ethernet. The illustration below shows the connection method.



5. Start the OptoStar II Web Client software.

Continued on next page

Web Client Functions

System Login

1. Firstly, set the IP address of the OptoStar II ICIM. See ***Console Functions*** (page 3-13) or ***Cisco Optostar II Intelligent Communications Interface Module (ICIM) Installation and Operation Guide*** (On page 3-8), part number: OL-29660 for setting the IP address of the OptoStar II ICIM.
2. Secondly, set the IP address of the OptoStar II ICIM in a web browser (Google Chrome is recommended). For example: http://192.168.1.1. The Web Client system login screen will display as shown below.

3. Finally, enter the username and password to login the Web Client system. The system username and password are admin by default.

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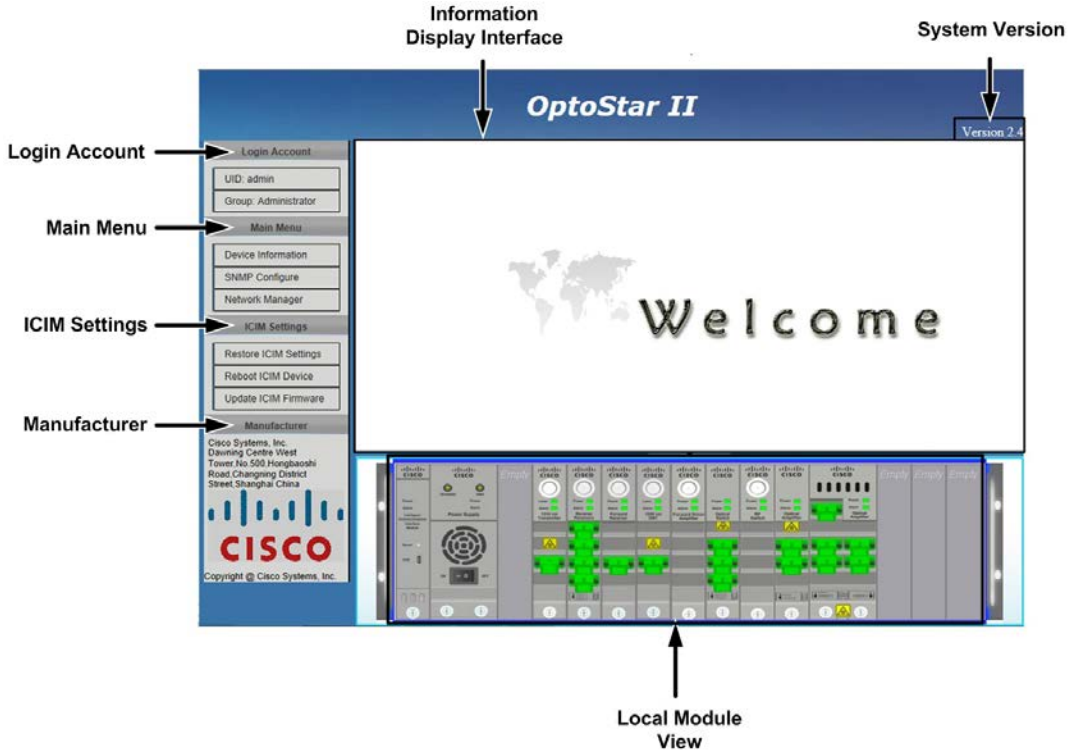
System Main Interface

Once the user has successfully logged in, it will display the main interface of the system as shown below.



The system main interface of the OptoStar II Web Client displays Information Display Interface, System Version, Login Account, Main Menu, ICIM Settings, Manufacturer and Local Module View.

- The user can view the information of system version, login account, manufacturer and local module on the system main interface.
- On the right of the system main interface provides Main Menu and ICIM Settings menu, the user can select the needed menu to enter the corresponding management system.
- The user can click the module which they want to operate in the local module view, and then the information display interface will show the information of the corresponding module.

Continued on next page

System Information

Click the Device Information option in the Main Menu, the information display interface will show the following interface:

- Users are unable to change the above system information.

SNMP Configuration

Click the SNMP Configure option in the Main Menu, the information display interface will show the following interface:

Continued on next page

In the SNMP Service interface:

- Enable: The OptoStar II Web Client software allows access to the ICIM.
- Disable: The OptoStar II Web Client software cannot access to the ICIM.
- Click “save” to save.

Device community includes Index, Community, Permissions, Description and Status.

- Index: 1 - 10
- Community: Users can change the community according to their own needs
- Permission: Read-Write or Read-Only.
- Description: Users can change the description according to their own needs
- Status: select Enable to activate current community; select Disable to deactivate current community.
- Click “save” to save.

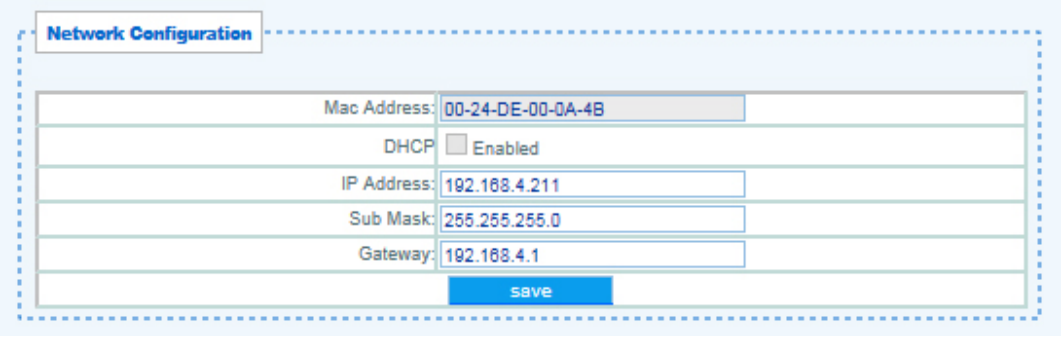
Trap status includes Index, Destination IP, Community and Status.

- Index: 1 - 8
- Destination IP: Users can change the destination IP according to their own needs.
- Community: Users can change the community according to their own needs.
- Status: select Enable to send Trap; select Disable not to send Trap.

  Note: It’s available to send Trap to at most 8 different addresses.
- Click “save” to save.

Network Configuration

Click the Network Manager option in the Main Menu, the information display interface will show the following interface:



- Users can change the IP Address, Subnet Mask and Gateway according to their own needs. Click “save” to save.

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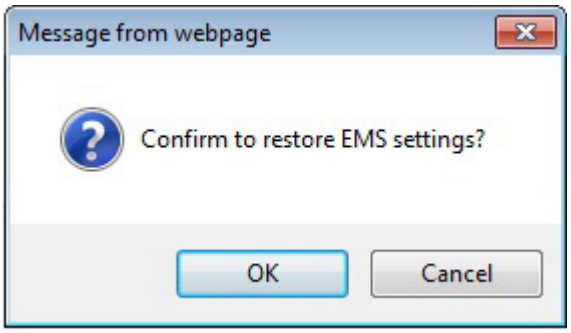
Restore ICIM Settings

Click the Restore ICIM Settings option in the ICIM Settings menu, the information display interface will show the following interface:

Click the Restore button, a window of confirming to restore ICIM settings will pop up as below.

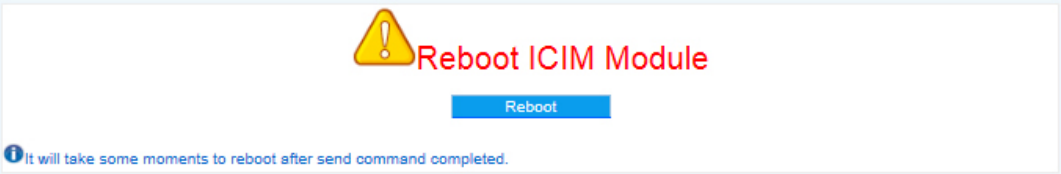


- Click OK to restore device information, SNMP information, network information and user information (defailt username/password: admin).
- Click Cancel to cancel the restore operation.

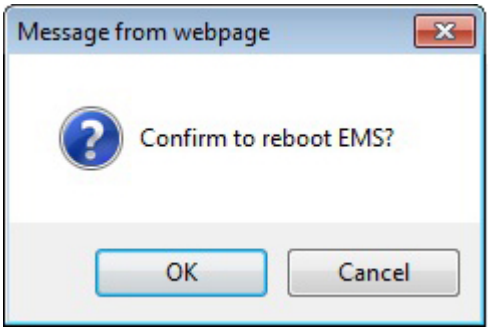
Continued on next page

Reboot ICIM Module

Click the Reboot ICIM Module option in the ICIM Settings menu, the information display interface will show the following interface:



Click the Reboot button, a window of confirming to reboot ICIM module will pop up as below.

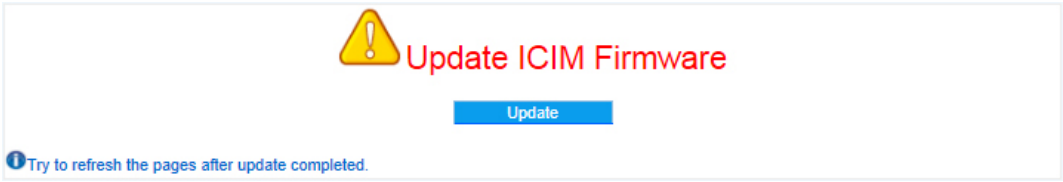


- Click OK to reboot ICIM module.
- Click Cancel to cancel the reboot operation.

Continued on next page

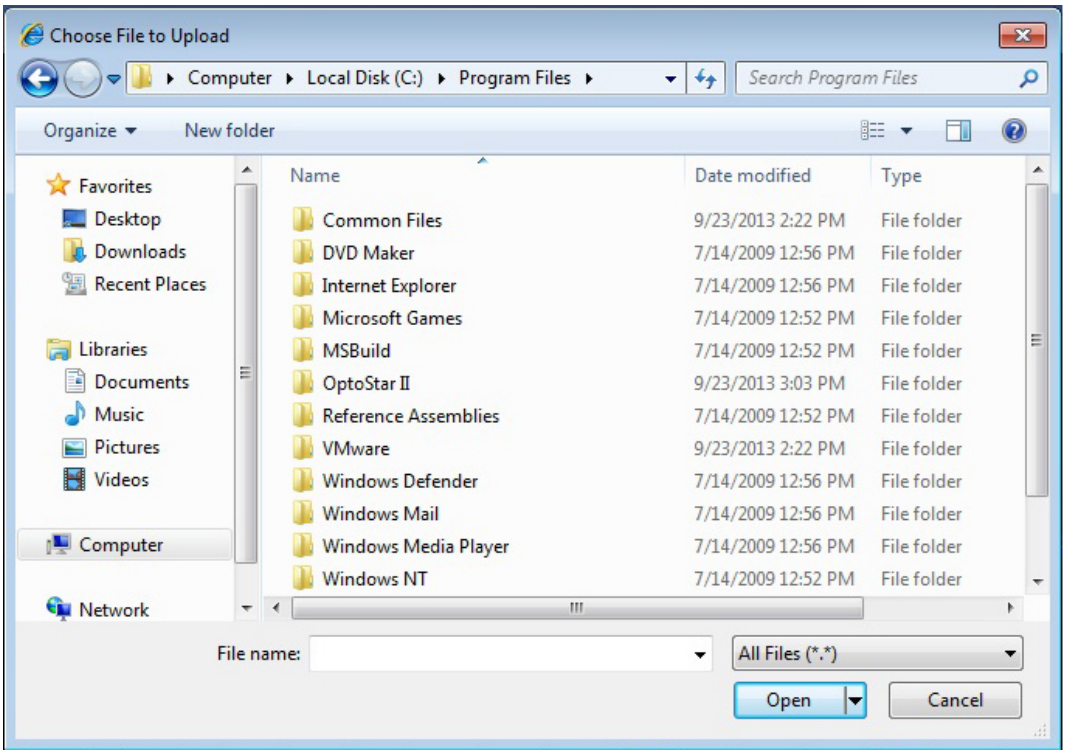
Update ICIM Firmware

Click the Update ICIM Firmware option in the ICIM Settings menu, the information display interface will show the following interface:



Click the Update button, a window of selecting the update file will pop up as below.

Note: the update file is provided by the company.

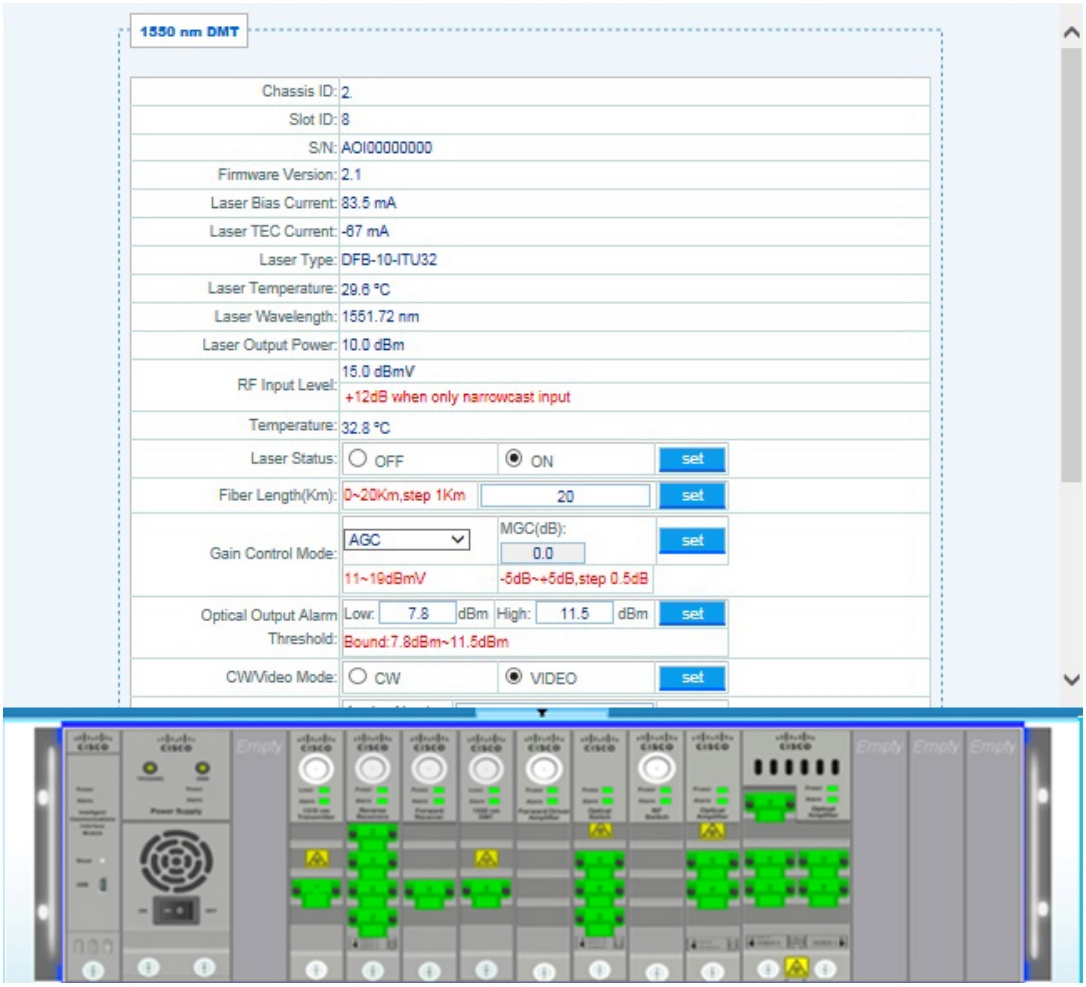


Select the update file to update ICIM firmware. Refresh the page after the update.

Click Cannel to cannel ICIM firmware update.

Continued on next page

Click to select the module which users want to operate in the interface that shows all the local modules (take an example of OptoStar II 1550 nm DWDM forward direct modulation transmitter module, the operation of other modules are reference for this module). The parameter setting interface of the 1550 nm DWDM forward direct modulation transmitter module will display as illustrated below.



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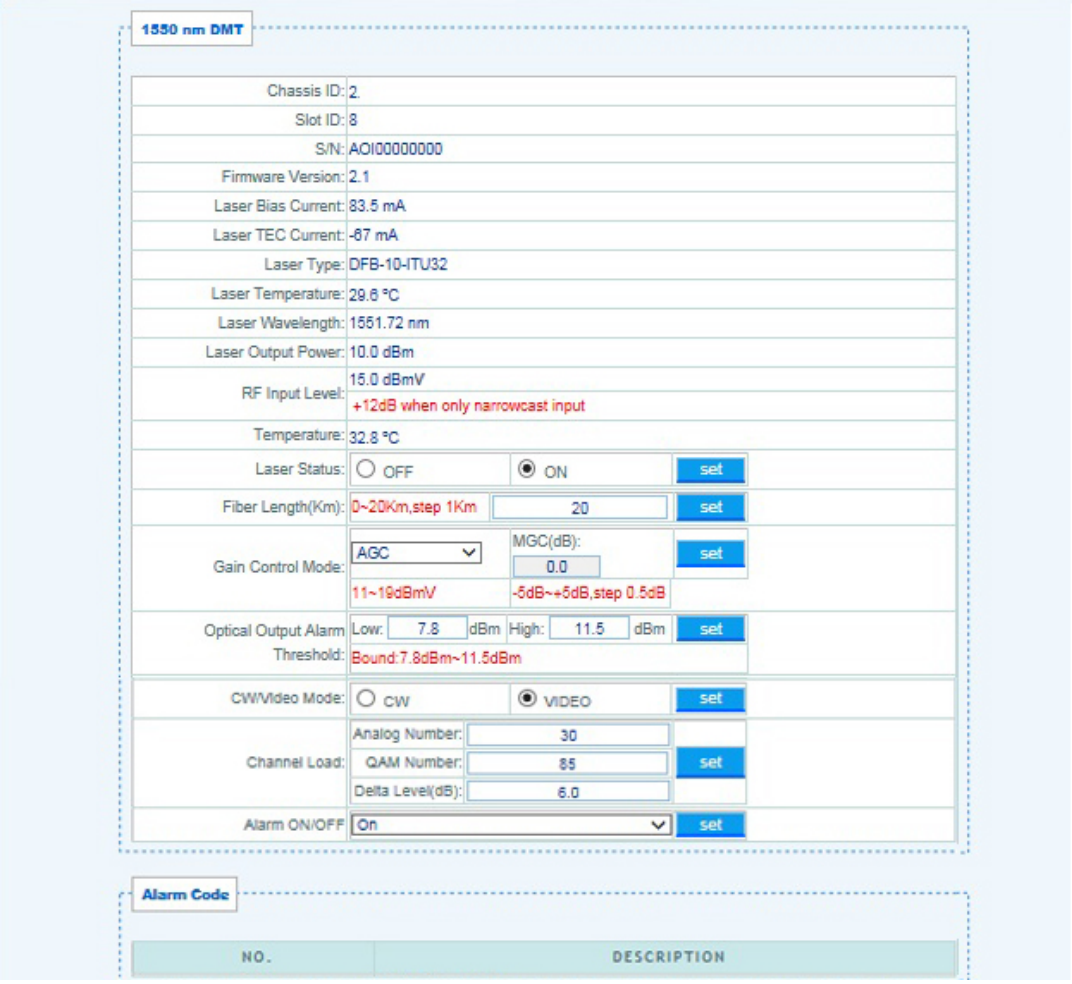
Click the button at the top of interface of the Local Module View to view the full parameters page, and adjust the scroll bar on the right of the system main interface. After the adjustment, the information display interface will show as below.



- Users can set the parameters of the module according to their own needs. Click "set" to save.

Chapter 4 Customer Support Information

Overview

This chapter contains information on obtaining product support.

In This Chapter

IF…	THEN…
you have general questions about this product	Contact your distributor or sales agent for product information or refer to product data sheets on www.cisco.com.
you have technical questions about this product	Call the nearest Technical Service center or Cisco office.
you have customer service questions or need a return material authorization (RMA) number	Call the nearest Customer Service center or Cisco office.

Support Telephone Numbers

This table lists the Technical Support and Customer Service numbers for your area.

Region	Centers	Telephone and Fax Numbers
North America	Atlanta, Georgia United States	For *Technical Support*, call: Toll-free: 1-800-722-2009 Local: 678-277-1120 (Press **2** at the prompt) For *Customer Service*, call: Toll-free: 1-800-722-2009 Local: 678-277-1120 (Press **3** at the prompt) Fax: 770-236-5477 E-mail: customer-service@cisco.com
Europe, Middle East, Africa	Belgium	For *Technical Support*, call: Telephone: 32-56-445-197 or 32-56-445-155 Fax: 32-56-445-061 For *Customer Service*, call: Telephone: 32-56-445-444 Fax: 32-56-445-051 E-mail: service-elc@cisco.com
Japan	Japan	Telephone: 82-2-3429-8800 Fax: 82-2-3452-9748 E-mail: songk@cisco.com

Continued on next page

Region	Centers	Telephone and Fax Numbers
Korea	Korea	Telephone: 82-2-3429-8800 Fax: 82-2-3452-9748 E-mail: songk@cisco.com
China (mainland)	China	Telephone: 86-21-2401-4433 Fax: 86-21-2401-4455 E-mail: repaircentercn@external.cisco.com
All other Asia-Pacific countries & Australia	Hong Kong	Telephone: 852-2588-4746 Fax: 852-2588-3139 E-mail: support.apr@sciatl.com
Brazil	Brazil	Telephone: 11-55-08-9999 Fax: 11-55-08-9998 E-mail: fattinl@cisco.com or ecavalhe@cisco.com
Mexico, Central America, Caribbean	Mexico	For *Technical Support*, call: Telephone: 52-3515152599 Fax: 52-3515152599 For *Customer Service*, call: Telephone: 52-55-50-81-8425 Fax: 52-55-52-61-0893
All other Latin America countries	Argentina	For *Technical Support*, call: Telephone: 54-23-20-403340 ext 109 Fax: 54-23-20-403340 ext 103 For *Customer Service*, call: Telephone: 770-236-5662 Fax: 770-236-5888 E-mail: keillov@cisco.com

Return for Repairing

Introduction

Before returning your product, you must obtain a Return Material Authorization (RMA) number. Call the nearest Customer Service center and follow their instructions.

Procedures of returning your product to Cisco for repairing:

- Obtain RMA number and mailing address
- Package and mail the product to be repaired

Obtain RMA number and mailing address

Before return your products, you must obtain a RMA number.

RMA number is valid for 60 days. If your RMA number expires, you must call your customer service representative to update it before returning your equipment. You can return your product after updating the RMA number. Otherwise, your RMA application may be postponed.

Follow the procedures below to obtain your RMA number and mailing address:

1. Contact your customer service representative to apply for a new RMA number, or update an existing RMA number. Obtain customer service numbers for your area in ***Obtaining Product Support*** (on Page 5-2).
2. Provide the following information to your customer service representative:
   - Company name, contact person, telephone number, e-mail address and fax number.
   - Product name, model, part number, SN (if any)
   - Number of returned products
   - Return reason and Repairing/Maintenance Permissions
   - Any related service detail
3. When your customer service representative sends a RMA number to you, you will be required to fill in a purchase order or make advance payment to cover estimated repair costs.

   Note: Users who pay by credit card or cash will receive a proforma invoice after the repair work is completed, which lists breakdown of repair costs.

   Within 15 days upon your receipt of the proforma invoice, the customer service center must receive a purchase order number. During the warranty period, product subject to destruction, misuse, modification, or no problems found would generate costs. The product with additional generated costs will not be returned to the customer until valid P/O number is received.

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4. Users can confirm receipt of the RMA number via e-mail or fax. The RMA will list details such as RMA number, verified products to be returned and number of returned products, mailing address and RMA clauses.
   Note: Also, users can obtain and complete a RMA application form, and send it to customer service representative via fax, or
   e-mail: repaircentercn@external.cisco.com

Packaging and Mailing

Follow the steps below to package and return your product to Cisco.

Do you have the original packaging boxes and packaging materials?

- Yes: use the original packaging boxes and packaging materials to package your product
- No: use sturdy corrugated cardboard box meeting transportation requirements to package your product, and fill with packing materials.

Important: Users are responsible for safely mailing products to Cisco without any damage. Products with damage caused during transportation and due to improper packaging will be refused and returned to the user. In such case, the costs will be borne by the user.

Note: Do not return any power cable, accessory cable, or other accessories. Your customer service representative will provide specific instructions on how to order and replace any power cable, accessory cable, or other accessories.

Please fill in the following information on the external surface of the shipping box:

- RMA number
- User name
- Full address of the user
- Telephone number of the user
- "Attention: Factory Service"

Important: RMA number must be clearly marked on all returned products, packaging boxes, and accompanying documents. If the RMA number received by the factory service department is illegible, the RMA handling procedures will be delayed. The recipient for all returned products must be “Factory Services”.

Returned products must be mailed to the address specified on the confirmation email or fax sent by the customer service representative.

Continued on next page

Note: Cisco does not accept Freight Collect. Make sure that you choose freight prepaid method and purchase transportation insurance. The user should bear both freights to Cisco and all related import and export tariffs for any returned product, whether it's within the warranty period or not. For the product within the warranty period, Cisco will pay the freight when shipping repaired product to the user.

International Transportation: Fill in Cisco as International Transport Recipient, and state the notified party on the waybill as "international freight transport clearance contact".

Upon delivery of the equipment with complete RMA number, the receiving department will notify the user via fax or e-mail, and confirm the received products and the quantity. Please carefully check the confirmation letter to ensure that the products and the quantity received by Cisco are consistent with your shipment information.

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

http://www.cisco.com
Tel: 408 526-4000
800 553-6387
Fax: 408 527-0883

July 2014

Part Number OL-29664-05