

# Configuration Worksheets

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This appendix includes checklists, instructions, examples, and blank worksheets used for the initial installation and subsequent maintenance of the LightStream 1010 Asynchronous Transfer Mode (ATM) switch. The checklists, worksheets, and log provide reference and history information that may be useful when troubleshooting the switch in the future.

Following is a list of worksheets:

- Switch Installation Checklist
- Switch Component Checklist
- Port Configuration Worksheets
- Site Log
- Quick Installation Worksheet

Obtain copies of the worksheets shown in Figure B-1, Figure B-2, Figure B-9, Figure B-10, Figure B-11, Figure B-12, Figure B-13, and Figure B-14 before continuing so that, as you proceed through the following descriptions, you can record your information on the copies.

Each of the forms should be completed and kept in a safe place for future reference in the permanent-site record.

The worksheets are described in the following sections:

- Using the Port Configuration Worksheets
- Port Configuration Worksheet Masters

## **Switch Installation Checklist**

The Switch Installation Checklist is used to confirm that you have all the information needed to install and configure the LightStream 1010 ATM switch and that all the components are installed and operating correctly.

Before starting the installation, copy the Switch Installation Checklist shown in Figure B-1. Each task in the Switch Installation Checklist should be verified by the person performing the installation and then dated for the permanent-site record.

Every task in the Switch Installation Checklist is listed in the index and described in detail in previous chapters of this document.

## Switch Installation Checklist

**Figure B-1 Switch Installation Checklist**

Task	Verified by	Date
Date switch received		
Switch and all components unpacked		
Chassis components verified		
Safety recommendations reviewed		
Installation Checklist copied		
Site Log established and background information entered		
Site power voltages verified		
Site environmental specifications verified		
IP addresses (if needed) assigned		
Required tools available		
Network connection equipment available		
Switch mounted in rack		
Second (optional) power supply installed		
AC power supplies connected to AC sources (separate lines if required)		
All ejector levers checked and secure		
Captive installation screws on supervisor engine module; line modules and power supplies checked		
Interface cables and devices connected		
ASCII <sup>1</sup> terminal attached to the console port		
Console port set for 9600 baud, 8 data bits, 2 stop bits, no parity		
All power supplies turned ON		
PS1 and PS2 power LEDs on for all power supplies		
System boot complete (normal LEDs)		
ASP <sup>2</sup> module operational (status LED on ASP green)		

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<sup>1</sup>ASCII = American Standard Code for Information Interchange

<sup>2</sup>ASP = ATM Switch Processor

## **Switch Component Checklist**

The Switch Component Checklist in Figure B-2 is used to verify that all hardware and documentation items needed to complete this installation have been received before starting the installation process.

Each component in the Switch Component Checklist should be verified by the person unpacking the equipment and kept for the permanent site record. Every component in the Switch Component Checklist is listed in the index and described in this document.

## Switch Component Checklist

**Figure B-2 Switch Component Checklist**

Component	Description	Received
Chassis	Switch chassis	
<b>Accessories Box:</b>		
Power cables	One power cable for each power supply received (may be shipped separately)	
Other optional equipment	Optional second power supply for redundant power feature	
	Ethernet transceiver	
Documentation <sup>1</sup>	Unpacking Instructions (on the outside of the shipping container)	
	LightStream 1010 User Guide (this publication)	
	Software license agreement	
<b>System components:</b>		
Switch processor module	Installed in slot 2	
155 MM port adaptor module (multimode fiber)	Enter slot locations and port addresses on the port Configuration Worksheet	
155 SM port adaptor module (single-mode fiber)	Enter slot locations and port addresses on the port Configuration Worksheet	
155 UTP port adaptor module (unshielded twisted-pair)	Enter slot locations and port addresses on the port Configuration Worksheet	
DS-3 port adaptor module	Enter slot locations and port addresses on the port Configuration Worksheet	
E-3 port adaptor module	Enter slot locations and port addresses on the port Configuration Worksheet	
622 SM port adaptor module (single-mode fiber)	Enter slot locations and port addresses on the port Configuration Worksheet	
622 MM port adaptor module (multimode fiber)	Enter slot locations and port addresses on the port Configuration Worksheet	
Other equipment		

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<sup>1</sup>Documentation no longer ships by default. You must specify the type and quantity of documentation sets when you order the hardware. Documentation is also available on the Cisco Connection Documentation, Enterprise CD.

## Port Configuration Worksheets

The Port Configuration Worksheet is used during the software configuration process.

Each heading in the Port Configuration Worksheet should be completed by the person configuring the switch and kept for the permanent-site record.

Every component in the Port Configuration Worksheet is listed in the index and described in detail in previous chapters of this document.

## Using the Port Configuration Worksheets

This section contains a sample LightStream 1010 ATM switch configuration and the corresponding port configuration forms.

### Switch Configuration Example

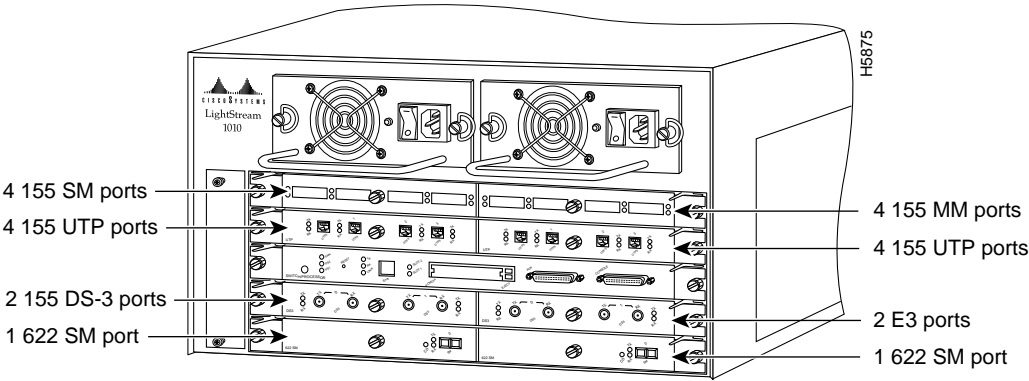
The LightStream 1010 ATM switch example is shown in Figure B-3, and the completed Port Configuration Worksheets are shown in Figure B-4 through Figure B-8.

The first configuration shows a very simple case, which includes the following elements:

- Slot 0 — one 155 SM port adapter module with four single-mode ATM connections to buildings one through four of the local campus
  - one 155 MM port adapter module with four multimode ATM connections to floors one through four of the installed building
- Slot 1 — two 155 UTP port adapter modules with eight unshielded twisted-pair ATM connections to local servers one through eight
- Slot 2 — ATM switch processor module with an Ethernet connection and a terminal connected to the serial port
- Slot 3 — one DS-3 port adapter module with two coaxial ATM connections to domestic T3 facilities
  - one DS-3 port adapter module with two coaxial ATM connections to European digital facilities
- Slot 4 — two 622 SM port adapter modules with two single-mode ATM connections to OC12 connections

**Figure B-3      Sample Single LightStream 1010 ATM Switch Configuration Worksheet**

Slot	Sub. Card	Port Adapter Module Type
0	0	155 SM
0	1	155 MM
1	0	155 UTP
1	1	155 UTP
2	—	ATM Switch Processor
3	0	DS-3
3	1	E3
4	0	622 SM
4	1	622 SM



## Port Configuration Worksheets

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**Figure B-4** Sample Port Configuration Worksheet for Slot Number 0

Slot/PAM/Port No.	PAM Type	Name
0/0/0	155 SM	Bldg 1
0/0/1	155 SM	Bldg 2
0/0/2	155 SM	Bldg 3
0/0/3	155 SM	Bldg 4

Slot/PAM/Port No.	PAM Type	Name
0/1/0	155 MM	Floor 1
0/1/1	155 MM	Floor 2
0/1/2	155 MM	Floor 3
0/1/3	155 MM	Floor 4

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**Figure B-5** Sample Port Configuration Worksheet for Slot Number 1

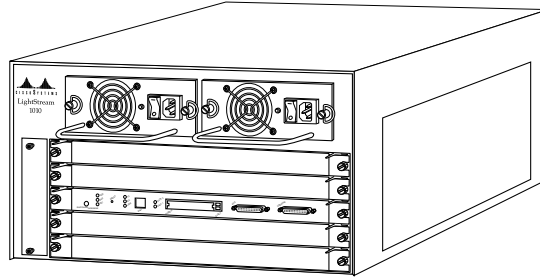
Slot/PAM/Port No.	PAM Type	Name
1/0/0	155 UTP	Server 1
1/0/1	155 UTP	Server 2
1/0/2	155 UTP	Server 3
1/0/3	155 UTP	Server 4

Slot/PAM/Port No.	PAM Type	Name
1/1/0	155 UTP	Server 5
1/1/1	155 UTP	Server 6
1/1/2	155 UTP	Server 7
1/1/3	155 UTP	Server 8

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**Figure B-6 Sample Port Configuration Worksheet for Slot Number 2—ATM Switch Processor**

Switch name: ATM Switch  
 IP address: 192.132.0.1  
 Location: MIS  
 Serial no: 12345



Slot/Port No.	Module Type	Name	Speed
Ethernet	ASP	Ethernet Port	10 Mbps
AUX 0		AUX	
Console 0		Serial	

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**Figure B-7 Sample Port Configuration Worksheet for Slot Number 3**

Slot/PAM/Port No.	PAM Type	Name
3/0/0	DS-3	Domestic 1
3/0/1	DS-3	Domestic 2
3/0/2	NA	NA
3/0/3	NA	NA

Slot/PAM/Port No.	PAM Type	Name
3/1/0	E-3	Europ 1
3/1/1	E-3	Europ 2
3/1/2	NA	NA
3/1/3	NA	NA

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## Port Configuration Worksheets

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**Figure B-8**      **Sample Port Configuration Worksheet for Slot Number 4**

Slot/PAM/Port No.	PAM Type	Name
4/0/0	622 SM	HS-1
4/0/1	NA	NA
4/0/3	NA	NA
4/0/3	NA	NA

Port Configuration Worksheet Masters

You can fill out the blank Port Configuration Worksheets (Figure B-9 to Figure B-13) before starting to configure the LightStream 1010 ATM switch.

Figure B-9 Port Configuration Worksheet for Slot 0

Slot/PAM/Port No.	PAM Type	Name
0/0/0		
0/0/1		
0/0/2		
0/0/3		

Slot/PAM/Port No.	PAM Type	Name
0/1/0		
0/1/1		
0/1/2		
0/1/3		

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## Port Configuration Worksheets

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**Figure B-10** Port Configuration Worksheet for Slot Number 1

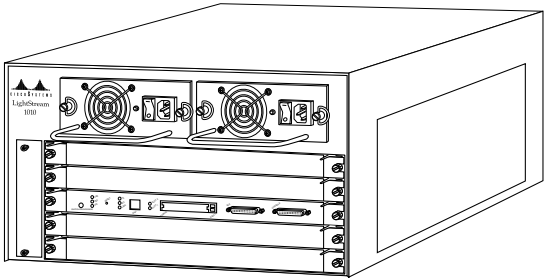
Slot/PAM/Port No.	PAM Type	Name
1/0/0		
1/0/1		
1/0/2		
1/0/3		

Slot/PAM/Port No.	PAM Type	Name
1/1/0		
1/1/1		
1/1/2		
1/1/3		

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Figure B-11 Port Configuration Worksheet for Slot Number 2 ATM Switch Processor

Switch name: \_\_\_\_\_  
IP address: \_\_\_\_\_  
Location: \_\_\_\_\_  
Serial no: \_\_\_\_\_



Slot/Port No.	Module Type	Name	Speed
Ethernet	ASP	Ethernet Port	10 Mbps
AUX 0		AUX	
Console 0		Serial	

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Figure B-12 Port Configuration Worksheet for Slot Number 3

Slot/PAM/Port No.	PAM Type	Name
3/0/0		
3/0/1		
3/0/2		
3/0/3		

Slot/PAM/Port No.	PAM Type	Name
3/1/0		
3/1/1		
3/1/2		
3/1/3		

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## Port Configuration Worksheets

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**Figure B-13** Port Configuration Worksheet for Slot Number 4

Slot/PAM/Port No.	PAM Type	Name
4/0/0		
4/0/1		
4/0/2		
4/0/3		

Slot/PAM/Port No.	PAM Type	Name
4/1/0		
4/1/1		
4/1/2		
4/1/3		

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## Site Log

The Site Log (see Figure B-14) is used for subsequent maintenance of the switch. A detailed description of actions performed and symptoms observed should be completed by the person performing the maintenance and kept as part of the permanent site record.

**Figure B-14      Site Log**

[illegible]

## Quick Installation Worksheet

The installation and configuration of the LightStream 1010 ATM switch can be separated into specific steps. If each step described in the Quick Installation Worksheet (see Table B-1) is completed following the instructions provided in this publication, LightStream 1010 ATM switch installation should be successful. If the installation fails to make the LightStream 1010 ATM switch function properly in the first attempt, the Quick Installation Worksheet can be used to systematically check that each step was performed correctly.

Copy the Quick Installation Worksheet and initial each procedure as it is completed. Each task in the Quick Installation Worksheet should be verified by the person performing the installation and dated for the permanent site record.

Every task in the Quick Installation Worksheet is described in detail in this publication or in the *LightStream 1010 ATM Software Configuration Guide*, and is listed in the index.

**Table B-1      Quick Installation Worksheet**

<b>Task</b>	<b>Completed</b>
Complete Switch Installation Checklist	
Complete Switch Component Checklist	
Complete Port Configuration Worksheets	
Rack-mount the switch	
Connect cables	
Connect power cables	
Switch power on	
Configure IP address (optional)	
Configure ATM Address (optional)	
Configure line [aux/console]	
Configure SNMP	
Set clock (optional)	
Test the configuration	
Store configuration	

## Quick Installation Worksheet

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