


# Adtron SC6F/H Installation Manual

## Introduction

The SC6F and the SC6H are members of Adtron’s CompactPCI® family of 6Ux4HP storage blades. The SC6F/H, in flash or hard disk, offers PICMG 2.9 compatible IPMI and delivers the highest durability of any storage media available today for applications in industrial and defense computing platforms.

## ESD Caution

 Before handling the SC6F/H or RTB make sure that you are working in an ESD-safe environment. This includes wearing a wrist-strap that is connected to the cPCI chassis. Another precaution is to touch the cPCI chassis before handling or installing/removing the SC6F/H or RTB.

## Before installing the SC6F/H

1. Set the SCSI ID before installing the SC6F/H in the cPCI chassis. JP1 is a set of option jumpers and is used to configure the internal SCSI ID, options, and to power an external LED. Refer to Figure 1 for the location of JP1 and Table 2 for valid SCSI ID numbers and jumper combinations. Figure 2 shows JP1 pins.
2. Make sure that guide rails are installed in the chassis.
3. Make sure power is off at the chassis.
4. Make sure that you are properly grounded.

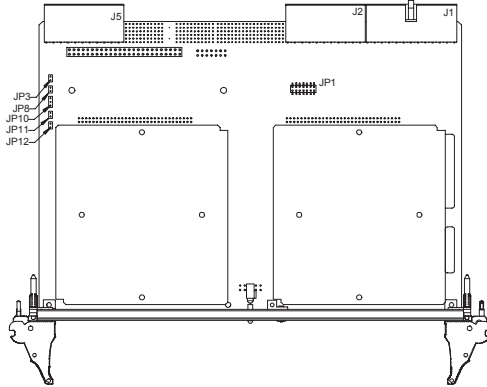


Figure 1 SC6F/H Jumper Locations

## Disconnects

SCSI disconnects are controlled by the SCSI host adapter and are enabled by default. Without using the host adapter controls, disconnects can be disabled by installing a jumper on pin labeled “B” on JP1 in Figure 2.

## Remote LED

The last jumper on the right of JP1 on Figure 2 is used to install a remote-mounted LED without external power or resistors. The output is active low and includes a 120 Ohm current-limiting resistor.

## Setting SE and LVD Modes (configurations 02 and 03)

The JP3 jumper is used to set Single Ended or Low Voltage Differential. LVD mode is enabled by default. To enable SE mode and disable LVD mode, place a jumper on JP3. Refer to Figure 1 for the location of JP3.

## Setting External SCSI Bus Multi-Mode (LVD/SE) Termination (configurations 02 and 03)

The JP8 jumper is used only for the external SCSI bus through RJ5 on the SC6RTB. LVD external rear I/O termination is enabled by default and can be disabled by placing a jumper on JP8. Refer to Figure 1 for the location of JP8.

## Setting External SCSI Bus Termination Power (configurations 02 and 03)

The JP10 jumper is only for the external SCSI bus through RJ5. To use external power from the SCSI cable, place a jumper on JP10 pins “1” and “2” (default). To use local 3.3V for external termination power, place a jumper on JP10 pins “2” and “3”. JP10 is shown in Figure 1. If no jumper is used on JP8, one must be put on JP10 pins “1” and “2” or “2” and “3”.

## Setting Rear I/O SCSI Bus Termination Power out (configurations 02 and 03)

The JP11 jumper is used for the external SCSI bus through RJ5 on the SC6RTB. By placing a jumper on JP11, local power connects through a 1.5A resettable fuse to termination power through J5. Refer to Figure 1 for the location of JP11. This jumper is on by default.

## Auxiliary Configuration

JP12 is for auxiliary configuration and is not to be removed.

<b>Indicators</b>	IPMI LED - the health of IPMI. Green indicates good. Solid orange indicates an error. Flashing orange indicates initializing. Activity LED – Off indicates no read/write activity to drives. Green indicates read/write activity to drives.
<b>Interface</b>	Optional onboard bootable SCSI host adapter and optional offboard SCSI distribution. Optional SCSI host connection. See the SC6F/H Product Specification for complete interface details.
<b>Size</b>	6U x 4HP
<b>Weight</b>	Based on capacity. Contact Adtron Sales.
<b>Power</b>	3.3V @ 1.0A, 5V @ 2.0A max (startup current)

Table 1 Specifications

SCSI ID	JP1 Pin 4	JP1 Pin 2	JP1 Pin 1
0	OFF	OFF	OFF
1	OFF	OFF	ON
2	OFF	ON	OFF
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF
7	ON	ON	ON

Table 2 SCSI IDs

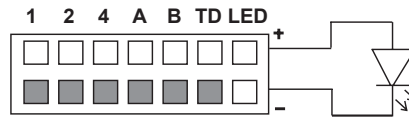


Figure 2 JP1

**Do Not** install a jumper on TD on JP1.  
 Grayed pins are ground.

**Installing the SC6F/H in the chassis**

1. Turn the system power off.
2. Locate an empty 6U peripheral slot. (Not the system slot with red guide rails.)
3. Remove the slot cover plate, if present.
4. Unlatch both handles on the SC6F/H by pressing in on the release button in each handle.
5. Holding the SC6F/H by the handles with J5 at the top, properly align the SC6F/H with the guide rails and slide it back until it touches the backplane connectors.
6. To engage the handles, simultaneously push the SC6F/H into the backplane while levering in on both handles until the handles lock into the chassis.
7. Fasten the screw located inside each handle to the chassis, if desired.
8. Apply power to the chassis.

**Installing the RTB in the chassis**

1. Turn the system power off.
2. Locate the empty 6U peripheral slot directly opposite the SC6F/H.
3. Remove the slot cover plate, if present.
4. Unlatch both handles on the RTB by pressing in on the release button within the handle.
5. Holding the RTB by the handles with RJ5 at the top, properly align the RTB with the guide rails and slide it back until it touches the backplane connectors.
6. To engage the handles, simultaneously push the RTB into the backplane while levering in on both handles until the handles lock into the chassis.
7. Fasten the screw located inside each handle to the chassis, if desired.

**Installing the device drivers**

The SC6F/H (configurations 01 and 03) uses a widely supported SCSI controller and should operate in most modern operating systems. Configuration 02 does not need a device driver.

**Installing an operating system**

The SC6F/H is ready to be loaded with most popular operating systems and any software applications required.

Problem	Possible Solutions
The SC6F/H drives are not seen during the BIOS load and/or the SC6F/H will not boot the operating system from the HDD.	Verify that JP1 jumpers on the SC6F/H are set correctly. Verify that BIOS settings are enabled for the SCSI bus. Make sure the SC6F/H and the SC6RTB are in corresponding slots. If J5 is used, make sure the cable is connected correctly.
After inserting the SC6F/H and powering up the chassis, the IPMI LED indicator is off.	Contact Adtron technical support for a Return Material Authorization number.

**Table 3 Troubleshooting**

**Troubleshooting**

The SC6F/H is simple to install and operate. Table 3 lists some common problems and possible solutions. For more information, visit the Adtron website at <http://www.adtron.com/support>, send email to [techsupport@adtron.com](mailto:techsupport@adtron.com), or contact technical support at 602-735-0300 in the U.S. or at +45-4557-0754 in Europe.

**Warranty**

Adtron warrants this product to be free from defects in materials and workmanship for three years. If this product fails within three years due to such a defect, Adtron will repair or replace this product at no charge.

This warranty does not apply if this product has been damaged by abuse, accident, disaster, misuse or incorrect installation.

**Notice**

This manual provides some basic feature information and installation instructions for the Adtron SC6F/H. Adtron reserves the right to modify, amend, or in any way change the contents and/or products described herein, at any time, without notification.

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