


Adtron SC3 Installation Manual


Introduction

The SC3 is a member of Adtron's CompactPCI® (cPCI®) family of 3Ux4HP storage blades.

 The SC3 has three different configurations (01, 02 and 03). For complete details, see the SC3 Operations Manual, available online at <http://www.adtron.com/tech.html>.

Visit <http://www.adtron.com/catalog.html> to view the complete line of Adtron SCSI and IDE storage devices.

ESD Caution

 Before handling the SC3, RTB, or any media associated with the SC3, 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 SC3 or RTB.

Before installing the SC3

1. Set the SCSI ID before installing the SC3 in the cPCI chassis. The SCSI ID is determined by installing jumpers on pins 4, 2, and 1, or no jumpers for ID 0. JP1 is a set of option jumpers used to configure the internal SCSI ID, internal bus SCSI termination, 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.

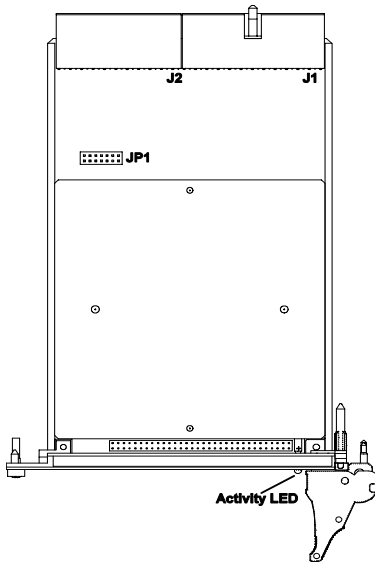


Figure 1 Jumper Location

Termination

The SC3 includes active termination that is enabled by default. Termination may be disabled by installing a jumper on the pin labeled TD on JP1. See Figure 2 for the location of TD on JP1.

Remote LED

The last jumper on the right of JP1 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. See Figure 2 for the location of the LED on JP1.

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. See Figure 2 for the location of pin B on JP1.

Installing the SC3 in the chassis

1. Turn the system power off.
2. Locate an empty 3U peripheral slot. (Not the system slot with red guide rails).
3. Remove the slot cover plate, if present.

Indicators	Activity LED – Off indicates no read/write activity to drives. Green indicates read/write activity to drives.
Interface	Optional onboard bootable SCSI host adapter and optional offboard SCSI distribution. See the SC3 Product Specification for complete interface details.
Size	3U x 4HP
Weight	343 g [12 oz]
Power	3.3V @ 1.25A, 5V @ 1.5A 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

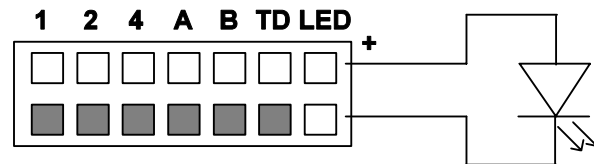


Figure 2 JP1

4. Unlatch the handle on the SC3 by pressing in on the release button on the handle.
5. Holding the SC3 by the handle with J2 at the top, properly align the SC3 with the guide rails and slide it back until it touches the backplane connectors.
6. To engage the handle, simultaneously push the SC3 into the backplane while levering in on the handle until the handle locks into the chassis.
7. Fasten the screw located inside the handle to the chassis, if desired.

Installing the RTB in the chassis (Optional)

1. Turn the system power off.
2. Locate the empty 3U peripheral slot directly opposite the SC3.
3. Remove the slot cover plate, if present.
4. Unlatch the handle on the RTB by pressing in on the release button within the handle.
5. Holding the RTB by the handle with RJ2 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 handle, 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.
8. Restore power to the chassis.

Installing the device drivers

The SC3 (configurations 01, 02 and 03) uses a widely supported SCSI controller and should operate in most modern operating systems.

Installing an operating system

The SC3 is ready to be loaded with most popular operating systems and any software applications required.

Problem	Possible Solutions
The SC3 drive is not seen during the BIOS load and/or the SC3 will not boot the operating system from the HDD.	Verify that JP1 jumpers on the SC3 are set correctly. Verify that BIOS settings are enabled for the SCSI bus. Make sure the SC3 and the SC3RTB are in corresponding slots.
After inserting the SC3 and powering up the chassis, the LED indicator is off.	Contact Adtron technical support for a Return Material Authorization number.

Table 3 Troubleshooting

Troubleshooting

The SC3 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/tech.html>, send email to 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 SC3. 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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Adtron Corporation

4415 E. Cotton Center Blvd. Suite #100
 Phoenix, AZ 85040
 Tel: U.S. 602-735-0300, Europe + 41-56-496-5640
 Fax: U.S. 602-735-0359, Europe + 41-56-496-5648
<http://www.adtron.com>

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