


Adtron S35P-01N/03N Installation Manual

Introduction

Congratulations on your purchase of the Adtron S35P! The S35P is a PC Card drive that connects to the SCSI bus for use with PC Card ATA flash and hard disks, CompactFlash cards, SmartMedia, and multi-media cards (MMCs), some of which may require a PC Card adapter. This manual describes how to install the S35P.

ESD Caution

 Before handling the S35P or any media associated with the S35P, make sure you are working in an ESD-safe environment. Static electricity may be discharged through the PC Card into the S35P. In extreme cases, this may permanently interrupt the operation or destroy the card. To prevent this, touch a grounded device, such as a computer case, prior to inserting the PC Card.

Pre-Installation

Before beginning the installation, turn OFF the computer power.

Jumper Sets

The S35P contains five different sets of jumpers (JP1, JP2, JP3, JP5, and JP6). For compatibility with the SDDS product, use JP1, JP2, and JP3. For new installations, you can use JP5, which is a combined jumper. If using JP1, JP2, and JP3, do not use JP5. If using JP5, the only other jumper you might need is JP3, which allows socket swapping and ganging on the S35P-01N. JP6 is currently reserved.

SCSI ID

By default, the S35P SCSI ID is set to 2. To change this ID, place jumpers on pins labeled *ID04*, *ID02*, and *ID01* of JP2 or JP5 (no jumpers on these pins indicate ID 0). Refer to Table 2 for jumper settings.

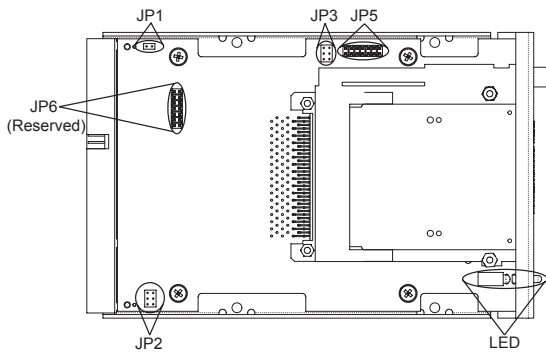


Figure 1 Jumper and LED Locations



Figure 3 S35P-01N Front Panel

SCSI Termination

By default, the S35P active termination is enabled. To disable termination, install a jumper on JP1 or on pins labeled *TD* on JP5. If the S35P is the last device on the bus, termination must be enabled (see Figure 2).

Disconnects

By default, disconnects are enabled on the S35P. The drive, however, only disconnects when appropriate if the host controller grants the privilege. To disable disconnects, install a jumper on pins 5 and 6 of JP3 or on pins labeled *B* on JP5 (see Figures 1 and 2). When disabled, the S35P does not disconnect, regardless of the host controller privileges. Disabling disconnects may resolve host protocol conflicts.

Indicators	One bi-colored (orange/green) status LED per socket. See below for a detailed description.
Interface	SCSI, 50-pin, 0.1" pitch
Size	101.22mm [3.985"] W x 158.1mm [6.225"] D x 25.15mm [0.990"] H
Weight	170gr [6.00oz] (Based on the S35P-01N model)
Power	Standard disk drive power cable: 5VDC @ 250mA (w/o card) with optional 12VDC.

Table 1 Specifications

SCSI ID	ID04	ID02	ID01
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 JP2 and JP5 SCSI ID Settings

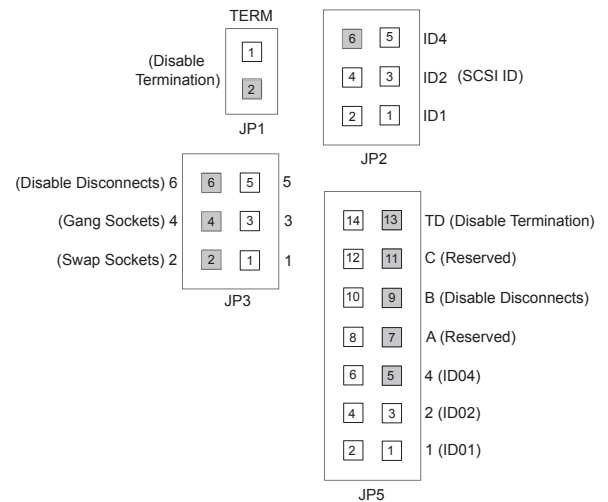


Figure 2 Jumper Pins

LED	Indicates
Solid Green	Card power is ON.
Unlit (Dark)	Card is not present or is not recognized.
Solid Orange/Flashing Orange	Host is accessing card.

Table 3 LED Indications

Swap Sockets (S35P-01N Model Only)

Each socket is an independent Logical Unit Number (LUN). Socket 1 is LUN 0, and socket 2 is LUN 1. To swap the sockets so that socket 1 is LUN 1 and socket 2 is LUN 0, place a jumper on pins 1 and 2 of JP3 (see Figures 1, 2, and 3). Because there is no equivalent jumper setting on JP5, you must use JP3 to swap sockets. This option is not available on the S35P-03N, which is pre-configured as LUN 0.

Gang Sockets (S35P-01N Model Only)

To combine the capacity of two identical ATA flash cards into one LUN (LUN 0), place a jumper on pins 3 and 4 of JP3 (see Figures 1, 2, and 3). Ganging sockets on the S35P-01N requires the media to be of equal capacities. For information on ganged sockets, see the *Ganged Sockets Technical Bulletin*, part number 810800011 (visit http://www.adtron.com/support/docs_card.html). Because there is no equivalent jumper setting on JP5, you must use JP3 to gang sockets.

LED Indicators

Each slot uses a bi-colored (green/orange) LED that indicates the card/drive status. When power is first applied, the LEDs flash green-orange twice while the S35P performs a self-test. After the self-test, the LEDs remain unlit until a card is inserted. See Table 3 for the different LED indications and Figure 3 for the LED locations.

Requirements

The S35P is supported on most operating systems, including Windows® 2000/XP and Linux®. Supported platforms include IBM® PC, Apple® Macintosh®, and Unix® workstations.

Installing the S35P

Slide the S35P into an empty 3.5" floppy disk drive bay. Secure the drive using the provided screws. Do **NOT** exceed the maximum insertion depth of 7.9mm [.312"] from the drive edge. If only 5.25" drive bays are available, you can purchase a drive-bay adapter from your local computer store. You may have to remove the computer cover to install the S35P. Consult your computer documentation for more information.

Connecting the Cables

Connect a 50-conductor SCSI ribbon cable to the S35P, ensuring pin 1 is nearest the power connector. Connect the other end of the ribbon cable to the SCSI adapter or another SCSI device in the chain. Then connect a disk drive power cable to the power connector of the S35P. Re-assemble the computer and turn on the power.

Installing the Software

The S35P operates as a removable disk drive on the SCSI bus. On most platforms, it is a supported device and does not require additional software. On some systems, you may need to enable multiple LUN support to use both sockets (S35P-01N only). Consult your SCSI adapter or operating system documentation for details.

Using the S35P

Most PC Cards do not require formatting. Simply insert the card into the S35P. If a card does require formatting, use the operating system format command. You can also use the S35P as a boot device if the SCSI controller BIOS supports this feature. It is important to note that CompactFlash, SmartMedia, and multi-media cards may require an adapter for use with the S35P.

Troubleshooting

Table 4 lists some common problems and possible solutions for the S35P. For technical support, visit <http://www.adtron.com/support>, send an email to techsupport@adtron.com, or call 602-735-0300 (U.S.).

Problem	Possible Solutions
I installed the S35P, but now the system hangs while booting OR there is no access to the drive.	<ol style="list-style-type: none"> 1. Make sure the SCSI ID does not conflict with other devices. 2. Check for proper SCSI bus termination. 3. Verify the SCSI disconnect settings, which need to be disabled with some SCSI adapters. Place a jumper on JP3 (pins 5-6) or JP5 (pins B), if necessary.
After inserting a card into the S35P, the LED goes dark.	<ol style="list-style-type: none"> 1. The S35P does not recognize or support the card. Only CompactFlash, SmartMedia, MMCs, and ATA flash and hard disks are supported. 2. The card may not be fully seated. Try reinserting the card.
The second slot of the S35P-01N is not accessible. (<i>Windows and Unix Workstation Platforms Only</i>)	Each slot of the S35P is a separate LUN, requiring multiple LUN support. Check the SCSI adapter or the OS (e.g., Linux) to ensure this option is enabled.
I upgraded my system but cannot find the drivers for the S35P. (<i>Macintosh Only</i>)	The S35P does not require drivers, but the SCSI host adapter might. Contact the manufacturer for details.
The LED indicators are flashing in a repeating error pattern (green flashes intermittently).	Cycle power on the S35P card reader OR on the entire system. If this does not resolve the issue, contact Adtron Technical Support.

Table 4 Troubleshooting

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

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