

Adtron SDDC Installation Manual

7 Specifications

Indicators	Two single-color LEDs indicate PC Card power
Host Interface	16-bit ISA bus
Size	SDDC ISA board: 3.85" W x 7.0" L x 0.45" H (98 mm x 177 mm x 11.5 mm) Remote Socket Unit: 4.0" W x 6.0" L x 1.0" H (101 mm x 152 mm x 25 mm)
Power Requirements (for SDDC)	5VDC @ 110 mA (no cards)
Power Available (to each card)	5VDC @ 1A 12VDC @ 300 mA

8 Warranty

Adtron warrants this product to be free from defects in materials and workmanship for one year. If this product fails within one year 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.



ESD Caution

Static electricity may be discharged through the SDDC. In extreme cases this may temporarily interrupt the operation or damage components. To prevent this, touch a grounded device, such as a computer case, prior to handling.

There are no user-serviceable components within the SDDC.

NOTICE

This manual describes the features of Adtron's SDDC. 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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1 Introduction

Congratulations on your purchase of the Adtron SDDC! The SDDC is a PCMCIA/PC Card v2.0 compliant interface supporting standard 68-pin memory and I/O cards, including SRAM, linear Flash, FAX/MODEMS, network, and ATA disk drives.

The SDDC installs into a 16-bit ISA slot and is available with three socket configurations. Two SDDCs can be installed into a system, providing a total of four PC Card sockets. The SDDC also has an onboard 5V-to-12V converter to give the most reliable performance when writing to Linear Flash memory.

This manual describes the hardware installation. Before using the SDDC, Card and Socket Services software must be installed. A separate manual describes how to install Card and Socket Services for your particular Operating System.

Before beginning the installation, turn the computer power OFF.

2 Hardware Configuration and Installation

The SDDC is available in three different configurations:

SDDC-01B	Two rear access sockets on the ISA board
SDDC-02B	Remote 3.5" drive bay unit with two front access sockets
SDDC-03B	One rear access socket and one remote 3.5" drive bay unit access socket

Up to two SDDCs can be installed into a system, providing a total of four PC Card sockets. **If two SDDCs are installed, the second SDDC must have a jumper on JP3 (CSEL).**

JP3 is located in the lower left-hand corner of the SDDC ISA board, below the speaker (LS1). See Figure 1 for the location of JP3.

Number of SDDCs	Jumper JP3
1	OFF (default)
2	ON (for second SDDC)

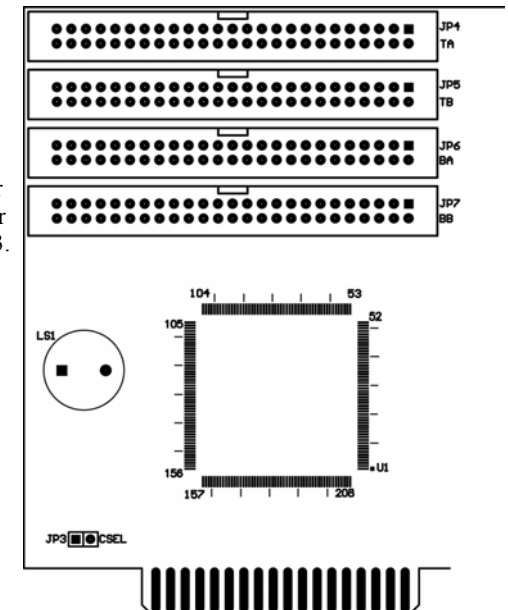


Figure 1 - JP3 Location

3 Connecting the Remote Socket Unit (RSU)

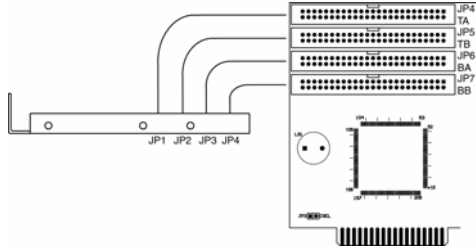
SDDC-02B and SDDC-03B models only

Mount the Remote Socket Unit into an empty 3.5” drive bay and secure it with the included screws. An adapter is available to mount the Remote Socket Unit into a 5.25” drive bay. Contact Adtron Sales for more information.

The cables from the Remote Socket Unit must be connected to the SDDC ISA board in the correct order. Refer to Figure 2 below:

SDDC-02B

- RSU Cable JP1 to ISA board JP4 (TA)
- RSU Cable JP2 to ISA board JP5 (TB)
- RSU Cable JP3 to ISA board JP6 (BA)
- RSU Cable JP4 to ISA board JP7 (BB)



SDDC-03B

- RSU Cable JP3 to ISA board JP4 (TA)
- RSU Cable JP4 to ISA board JP5 (TB)

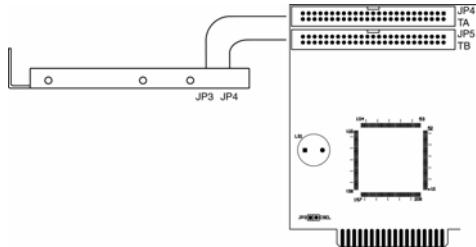


Figure 2 - Remote Socket Unit cables

When inserting the cables, make sure the red stripes of the cables are all on the same side and facing the metal bracket of the SDDC ISA board!

4 SDDC ISA Board Installation

The main SDDC ISA board installs into any 16-bit ISA adapter slot in a few easy steps:

1. Turn off power to the computer.
2. Remove the cover of the computer.
3. Locate an empty 16-bit ISA slot. An ISA slot will correctly accept the gold fingers on the edge of the SDDC PCB.
4. If the slot has a blank cover, remove it to expose the rear opening.
5. **With POWER OFF**, insert the SDDC fully into the ISA slot. If the unit is an SDDC-01B or -03B, make sure the PC Card connectors and ejectors stick out through the slot opening.
6. Secure the SDDC with a screw.
7. Replace the computer cover.

5 Installing Card and Socket Services

The SDDC can be used in a wide variety of Operating Systems. The SDDC utilizes an industry-standard controller, which is Intel register-set compatible and is supported by many Operating Systems. The procedure for installing the software varies for each different Operating System. Adtron supplies installation manuals for DOS and Windows. Refer to the included manual for the software installation procedure.

Operating System	Software
DOS/Windows 3.x	CardWizard for DOS/Windows 3.x
Win95/Win98/Win98SE/WinME, Linux	[Supported by Operating System]
WinNT 4.0 (SP4 or higher)	CardWizard for Windows NT
Win2000	[Supported by Operating System]

For other Operating Systems, refer to the Operating System documentation for installation details.

Some PC Cards may require a special client driver in order to use them, such as Data Acquisition cards. This driver should be included with the PC Card. If it is not, contact the vendor or manufacturer of that PC Card.

The SDDC does not support 3.3V-only or CardBus (PCMCIA v3.0) cards, such as 100 MBit Ethernet, ISDN, or Zoom Video. For these cards, use the Adtron SDDPCI-02.

6 Troubleshooting

The SDDC is simple to install and operate. However, if you experience problems, the table below lists some common problems and possible solutions.

Problem	Possible Solutions
I installed two SDDC boards, but the software only recognizes one of them.	Check the JP3 jumper. The second SDDC must have the jumper ON. Some Operating Systems may only support one SDDC. Contact the Operating System vendor.
I insert a PC Card into a slot on the Remote Socket Unit, but the system does not recognize it and the LED is off.	Check the cables. All of the red stripes should be on the same side and nearest the metal bracket of the SDDC ISA board.
I insert a PC Card and the system beeps twice, but the card is not accessible.	The PC Card may require system resources that are not available, such as an IRQ. Try freeing up resources before using the PC Card. The PC Card may require a special client driver. Install the software that was supplied with the PC Card.