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StorCase® Technology

Data Express®
DE75i-A100

Removable
Ultra ATA133
Low-Profile
Drive Enclosure

User's Guide

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StorCase® Technology

Data Express®
DE75i-A100

Removable Ultra ATA133
Low-Profile Drive Enclosure

User's Guide

Part No. D89-0000-0110 D02 October 2005

Kingston Technology Affiliate
StorCase® TECHNOLOGY
Safest Place for Your Data®

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Declaration of Conformity

Company Name:	StorCase Technology, Inc.
Corporate Office Address:	17600 Newhope Street Fountain Valley, CA 92708
Manufacturing Address:	17600 Newhope Street Fountain Valley, CA 92708
Product Name:	Data Express DE75
Model Number:	DE75i-XXXX/X

Conforms to the following standards:

EMC Directives: **(89/336/EEC)**	EN 50081-1: 1992 Generic Emission - EN 55022/CISPR22 Class B EN 50082-1: 1997 Generic Immunity - EN 61000-4-2 - EN 61000-4-6 - EN 61000-4-3 - EN 61000-4-8 - EN 61000-4-4 - EN 61000-4-11 - EN 61000-4-5
Safety Standards: **CSA (NRTL/C)**	CAN/CSA-C22.2 No. 950-95 UL 1950
TUV	EN 60950: 1992 EN 60950/A2: 1993 EN 60950/A1: 1993 EN 60950/A3: 1995
EMI Standards:	FCC Part 15, Class B
EMC Standards:	AS/NZS 3548 Information Technology Equipment
Year of Manufacture:	2000

Signature:_____

Full name: Dieter Paul

Position: President

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INTRODUCTION

Packaging Information

The StorCase Technology Data Express® system is shipped in a container designed to provide protection and prevent damage during shipment. The Data Express unit was carefully inspected before and during the packing procedure at the factory. Bent or broken connectors, or evidence of other damage to the Data Express should be reported to the shipper immediately. Refer to Figure 1 for the package contents.

If the wrong Data Express model has been received, please call your reseller or StorCase at (800) 435-0642 to arrange for a Return Material Authorization (RMA). A staff member will give you a Return Material Authorization (RMA) number to facilitate processing. StorCase cannot accept returns which do not display an RMA number on the outside of the package. Return the unit with all the original packing materials.

Before removing any component from its packaging, discharge any static electricity by touching a properly grounded metal object.

Serial Numbers

Both the Data Express receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the spaces provided below.

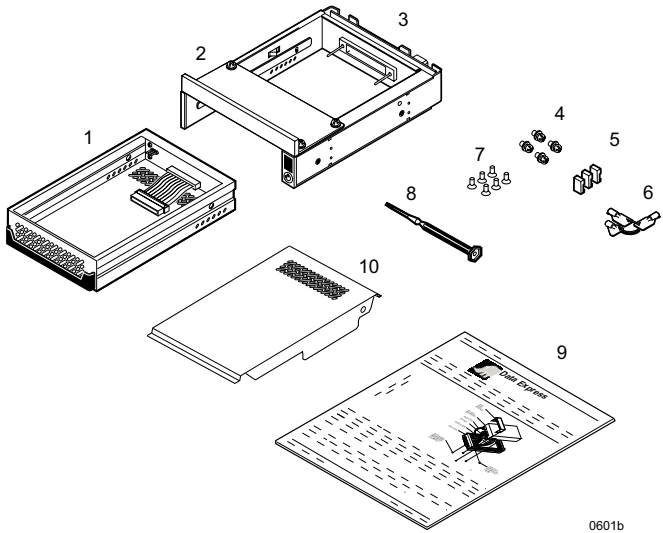
Receiving Frame: _____

Drive Carrier: _____

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Package Contents

The DE75i-A100 package contents include the following items. If any items are missing or damaged, contact your StorCase dealer for a replacement.



1. Drive Carrier
2. Low-Profile Filler Bracket (Installed)
3. Receiving Frame
4. #6-32 x 1/4" Phillips Machine Hd. Screws (Attach Receiving Frame to Computer)
5. Jumper Plugs
6. Drive Lock Keys
7. #6-32 x 3/16" Phillips F.H. Screws (Attach Drive and Cable Cover to Carrier)
8. Alignment Tool
9. Insert Sheet
10. Drive Cover

Figure 1: Package Contents

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General Description

NOTE: For Ultra ATA133 (133MByte/sec) operation, an Ultra ATA133 controller and hard drive(s), and appropriate 40-pin, 80-conductor cable are required.

The StorCase Technology **Data Express® DE75i-A100** is a removable low-profile drive carrier and receiving frame. The DE75i-A100 is designed to provide durable and reliable mounting for one (1) 3.5" low profile Ultra ATA133 drive within a 5.25" half-height peripheral slot (Figure 2). It is downward-compatible with earlier technology AT/IDE drives.

The DE75i-A100 allows the carrier unit and installed drive to be removed and transported to another DE75i-A100-equipped computer, and also provides the ability to secure sensitive data by removing and storing the carrier/drive safely for future use.

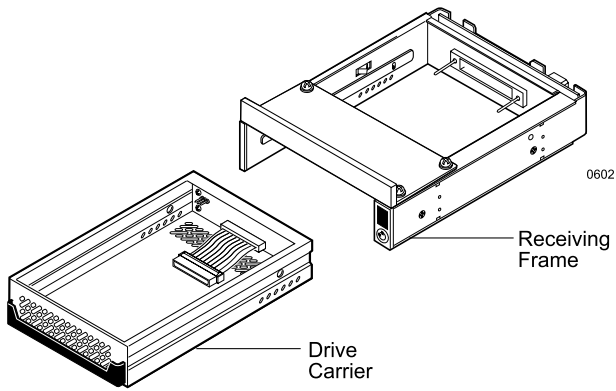


Figure 2: DE75i-A100 Receiving Frame and Carrier

This User's Guide describes the steps required to install the StorCase Data Express DE75i-A100 removable enclosure into a computer peripheral bay. This guide supplements documentation provided with the host computer system, operating system, and the drive to be installed within the Data Express carrier.

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Receiving Frame Front Panel

(Figure 3)

- **The Key Lock/Drive Power Switch** performs three functions. The key lock assures proper seating of the drive carrier within the receiving frame, turns power to the drive carrier on and off, and prevents unauthorized removal or installation of the carrier. For the computer to access data on the DE75i-A100 drive, the key must be turned counterclockwise to the locked position.
- **The Unit ID Number Indicator** displays the physical address of the DE75i-A100 drive carrier when the carrier is *Installed and Locked* in the receiving frame *or Removed* from the receiving frame. If the drive carrier is *Installed but Not Locked* , a "u" will be displayed. The unit ID number is selected by means of the unit ID select switch located inside the receiving frame using a special alignment tool supplied with the DE75i-A100. This procedure is explained later during the installation process.
- **The Activity Indicator** is a small dot next to the Unit ID Number which illuminates to show when the host computer is accessing the data on the DE75i-A100 carrier.

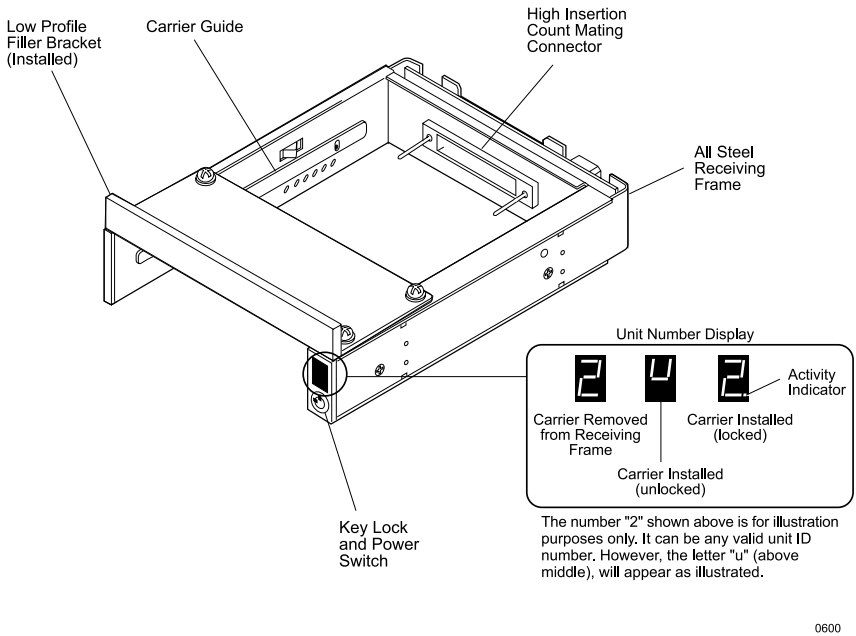


Figure 3: Receiving Frame Front Panel

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Receiving Frame Rear Panel

(Figure 4)

- **DC Power Connector (P1):** The Data Express uses a standard 4-pin DC Power Connector to accept DC power.
- **I/O Connector (JP1):** The input/output connector provides a standard interface for all IDE signals. See Table 1 for JP1 pin assignments.
- **JP6 Header:**

  Master/Slave Setting (JP6 ID0 & ID1):

  ID0: Jumper installed on Pins 1 & 2 (Factory Default) for Master configuration.

  ID1: Jumper installed on Pins 3 & 4 for Slave configuration.

  Remote Drive Activity (JP6 RLED): Pins 17 & 18 are used for remote drive activity.

  Jumper (JP6 DDA): Factory-installed on Pins 15 & 16 - Do not remove!

- **JP4 Option:** Refer to "*Method 2*" in the *Installation* section for further information.

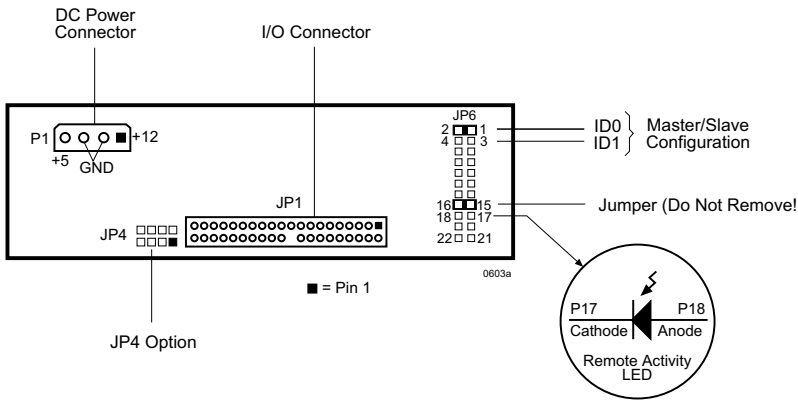


Figure 4: Receiving Frame Rear Panel (Motherboard)

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INSTALLATION

Installing the Drive into the Carrier

Preparation

NOTE: A #2 Phillips screwdriver will be required during this procedure.

While performing the steps in this section, work on a soft surface to prevent excessive shock to the drive being installed. Also refer to the manufacturer's documentation provided with the drive.

1. Remove the drive from its protective packaging.
2. **Plastic Drive Bezel:** If the drive came equipped with a plastic front panel (bezel), it must be removed before installing the drive into the drive carrier.
3. **Master/Slave Drive Selection:** There are two (2) ways to set the Master/Slave drive designation for the DE75i-A100 unit. Refer to Method 1 and/or Method 2 in the following sections for further information.

Master/Slave Drive Selection

Method 1 (Recommended) - *Using the factory-installed jumper on your IDE drive*

In most cases, the drive will be factory-configured as a Master Ultra ATA133 drive using a jumper plug on the drive itself. No configuration changes are required. For multiple drive configurations, it is necessary to set the first IDE drive as Master and the second IDE drive to Slave. This can be done by changing the jumper on the Ultra ATA133 drive itself (refer to your drive manufacturer documentation).

This method requires no additional configuration of the drive carrier circuit board.

However, the appropriate jumper setting must still be configured on JP6 (ID0 & ID1) located on the receiving frame motherboard (Figure 4). For Master setting, install jumper on ID0 (Pins 1 & 2). For slave setting, install jumper on ID1 (Pins 3 & 4).

Skip the Method 2 section and continue with section "*Installing the Receiving Frame*".

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Method 2 - *Using the hard-wire connector JP3 on the drive carrier circuit board to allow drive carrier interchangeability between Master/Slave configured receiving frames*

NOTE: Cable wire not included.

For drive carrier interchangeability between Master/Slave configured receiving frames,it is necessary to set the Master/Slave drive selection by both a hard-wire connection (cable wires not included) between the drive and the drive carrier circuit board.

This method requires the fabrication of a cable wire (not provided). Refer to the following sections to configure the drive carrier circuit board and jumper (JP4) located on the receiving frame (both required for Method 2).

Configuring the Drive Carrier Circuit Board

The appropriate pins on the drive must be connected to JP3 on the carrier board. These connections are required to set the Master/Slave configurations of the installed drive. Figure 5 illustrates the Drive Carrier Circuit Board.

When configuring the dual drives for interchangeable Master/Slave assignment, it is necessary to emulate the Master and Slave drive jumpers and the specific drive's signal polarity definition of Master and Slave.

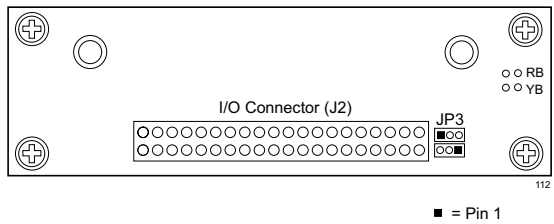


Figure 5: DE75i-A100 Drive Carrier Circuit Board

The JP3 connector has 3 pins:

Pin 1 Not used.
Pin 2 Connects to the Slave/Slave Present signal of the drive. This signal indicates whether a Slave D: drive is present or not.
Pin 3 Connects to the Master signal of the disk drive. This signal indicates that this is the Master C: drive.

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Examples of Ultra ATA133 drive pin positions are shown in Figure 6. Remove and save all jumpers. Install a cable wire (not provided) connecting the appropriate drive pins to the appropriate JP3 pins as shown in Figure 6. Installation of a jumper may also be necessary, depending on model.

NOTE: Pin assignments may vary depending on model, refer to the drive manufacturer's documentation for specific information regarding your drive.

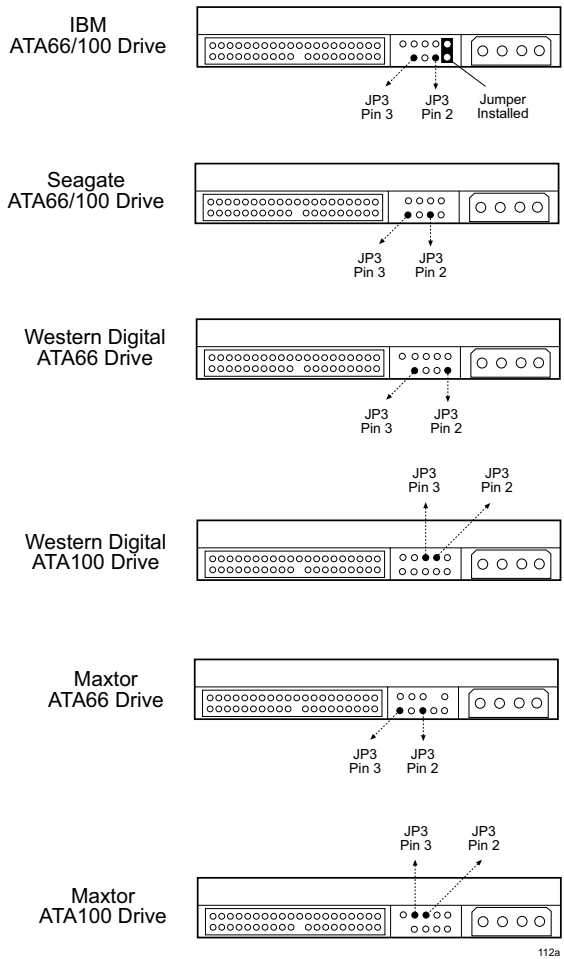


Figure 6: Examples of Ultra ATA Master/Slave Drive Connections

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Configuring the Receiving Frame Motherboard (JP4)

Once the Master/Slave configuration on the drive carrier circuit board is complete, the JP4 jumper(s) on the receiving frame motherboard must be configured as shown in Figure 7.

The appropriate jumper setting must still be configured on JP6 (ID0 & ID1) located on the receiving frame motherboard (Figure 4). For Master setting, install jumper on ID0 (Pins 1 & 2). For slave setting, install jumper on ID1 (Pins 3 & 4).

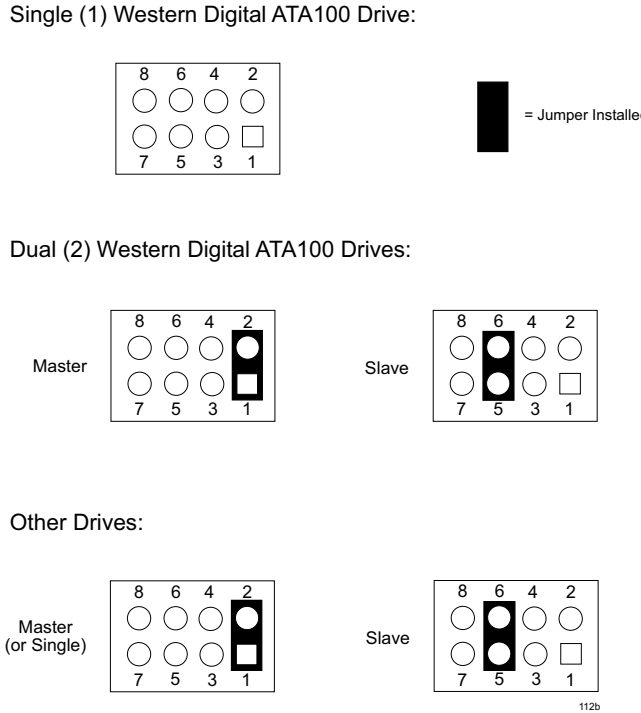


Figure 7: Typical Receiving Frame JP4 Master/Slave Jumper Settings

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Installation

1. Attach the I/O cable on the drive carrier circuit board to the drive (Figure 8).

2. Attach the DC power cable on the drive carrier circuit board to the drive (Figure 8). If you are installing only one drive carrier, skip to Step 4.

3. **For Method 2 Users:**
   If a Master/Slave cable was fabricated as outlined in the previous section, install it now between the appropriate drive pins and connector JP3 on the drive carrier circuit board (refer to Figure 6 for examples of Ultra ATA133 Master/Slave drive connections). Also refer to the drive manufacturer's documentation for more specific information.

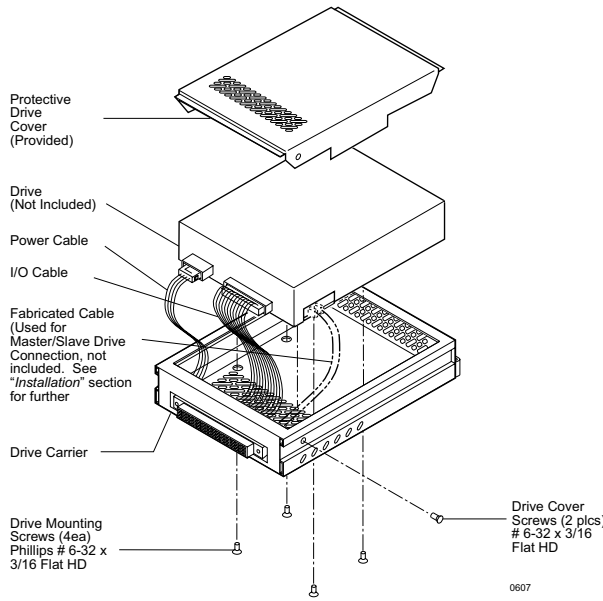


Figure 8: Drive Installation Assembly

4. Carefully insert the drive into the drive carrier at an angle, cable-end first. **Make sure none of the cables are pinched**. Lower the front of the drive carefully into place. Fasten the drive into the carrier with four of the eight screws provided as shown in Figure 8.

5. Install the provided drive cover.

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Installing the Receiving Frame

NOTE: Use a #2 Phillips screwdriver during this procedure.

The drive should be installed into the carrier before installing the receiving frame into the mounting bay of the computer chassis.

1. Turn OFF power to the computer.

2. Open the computer system according to the manufacturer's instructions. If necessary, temporarily remove any expansion boards that may make installation difficult.

3. Select the appropriate Master/Slave configuration on Option Pins JP6 (ID0 & ID1) located on the receiving frame motherboard (Figure 4).

4. With the drive carrier locked in place inside the receiving frame, install the DE75i-A100 into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the DE75i-A100, and fasten it into place with the four (4) #6-32 Phillips screws provided. Figure 9 illustrates the location of the mounting holes. Mounting holes are provided on each side and the bottom of the receiving frame to accommodate a variety of mounting configurations. Use the mounting holes which best suit the computer or expansion chassis configuration. Note that bottom mounting holes require self-tapping screws (not provided).

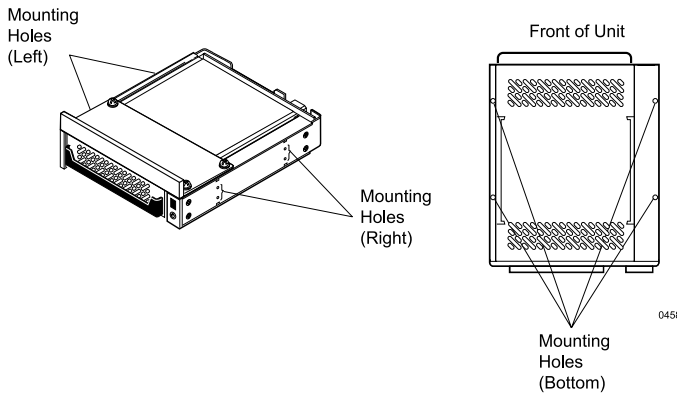


Figure 9: Receiving Frame Mounting Holes

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5. Adjust the front of the receiving frame so the carrier slides freely in and out on the receiving frame guides. The position of adjoining peripheral units may require adjustment.

6. To connect the drive to a Remote Activity LED in the computer system, connect the appropriate cable(s) to the receiving frame rear panel as shown in Figure 4. Connect JP6 Pins 17 & 18 to a remote activity LED.

7. Connect the I/O cable from the host adapter to the receiving frame. The Pin 1 indicator on the cable must be properly aligned. Refer to Figure 4 for the correct Pin 1 location.

8. Connect the power cable from the DC power supply in the computer chassis to the power connector on the DE75i-A100 receiving frame. Refer to Figure 4 for the receiving frame power connector location.

9. Replace any expansion boards that may have been removed earlier. Replace the system cover according to the manufacturer's instructions.

10. Reconnect any system or peripheral cables removed earlier.

11. Turn ON power to the computer. If the installation has been successful, and all cables have been properly attached, the system should boot normally. Although the computer may not recognize the DE75i-A100 yet, the front panel display on the Data Express should illuminate.

    NOTE: The lock on the DE75i-A100 receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged (turned counterclockwise) in order to supply power to the carrier and installed drive unit.

12. The new drive may need to be formatted or initialized prior to use with the operating system and applications software. Refer to the drive and/or computer manufacturer's documentation for formatting information.

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Selecting the Unit ID Number

1. Verify that power is turned on to the DE75i-A100 receiving frame by turning on the computer. A number should appear in the unit ID display window if the carrier is locked in place.

2. Unlock the DE75i-A100 drive carrier and remove it from the receiving frame. A "u" will be displayed initially when the unit is unlocked but will return to a number when the carrier is removed from the receiving frame.

   WARNING: Unlocking the carrier unit switches DC power off to the drive. Since disk drives require a short amount of time to spin down, allow about 15 seconds before pulling the carrier unit out of the receiving frame to avoid possible damage to the drive.

3. Use the alignment tool supplied with the DE75i-A100 to select the unit ID number of the drive. Refer to Figure 10 for the location of the Unit ID Select Switch inside the receiving frame. Table 1 lists the valid unit ID numbers that can be used for the drive.

   NOTE: If using drive or receiving frame jumpers to determine Master/Slave status, set the unit ID number to "0" on the receiving frame.

4. After selecting an appropriate unit ID number, replace the DE75i-A100 carrier in the receiving frame, and **LOCK IT IN PLACE**.

   NOTE: The lock on the DE75i-A100 receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged in order to supply power to the carrier and installed drive.

5. Reboot the computer. The new device is now ready for use, although it may have to be formatted or initialized prior to use with your operating system and applications software.

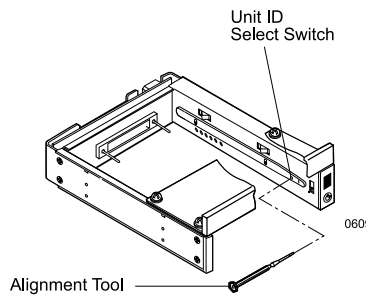


Figure 10: Unit ID Select Switch Location

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Unit ID Select Switch Settings

The following table lists the Unit ID Select Switch settings and the valid AT/IDE unit ID numbers. Please note that all invalid switch settings have shaded boxes and result in a blank display in the receiving frame display window.

Table 1: Unit ID Select Switch Settings

Unit ID Select Position	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Drive Selection		Master	Slave			Master	Slave			
Unit ID Number Display	Blank	0	1	Blank	Blank	2	3	Blank	Blank	Blank

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AT/IDE Interface Connector JP1

The AT/IDE Interface connector (JP1) pin assignments are as follows:

Table 2: AT/IDE Interface Signals

Pin	Signal	I/O	Pin	Signal	I/O
01	Host Reset-	O	02	Ground	
03	Host Data 7	I/O	04	Host Data 8	I/O
05	Host Data 6	I/O	06	Host Data 9	I/O
07	Host Data 5	I/O	08	Host Data 10	I/O
09	Host Data 4	I/O	10	Host Data 11	I/O
11	Host Data 3	I/O	12	Host Data 12	I/O
13	Host Data 2	I/O	14	Host Data 13	I/O
15	Host Data 1	I/O	16	Host Data 14	I/O
17	Host Data 0	I/O	18	Host Data 15	I/O
19	Ground		20	Key	No Pin
21	Reserved		22	Ground	
23	HIOW-	O	24	Ground	
25	HIOR-	O	26	Ground	
27	Reserved		28	Reserved	
29	Reserved		30	Ground	
31	IRQ 14	I	32	Host IO16-(AT)	I
33	Host ADDR 1	O	34	PDIAG- (16)	Notes
35	Host ADDR 0	O	36	Host ADDR 2	O
37	Host CS0-	O	38	Host CS1-	O
39	DASP-	Notes	40	Ground	

- Indicates an active-low signal.
Signal direction is with respect to the host.
"I" indicates *To* the host
"O" indicates *From* the host
The PDIAG and DASP signals are used for communication between master and slave.

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APPENDICES

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Appendix A - Specifications/Dimensions

Environmental Specifications		
	Operating	**Storage**
Ambient Temperature	-5° C to 50° C	-45° C to 75° C
Relative Humidity (1)	10% to 80%	10% to 90%
Altitude	-1000 to 50,000 ft -304m to 15240m	-1000 to 50,000 ft -304m to 15240m
Shock (2)	10g	60g

(1)Non-condensing with maximum gradient of 10% per hour.
(2)11 msec pulse width 1/2 sine wave.

Physical Specifications	Carrier	Receiving Frame
Height	1.07" (27.2mm)	1.13" (28.7mm)(1)
Width	4.67" (118.6mm)	5.75" (146.1mm)
Depth	7.38" (187.5mm)	8.15" (207.0mm)
Weight	1.1lb (0.50kg)	1.1lb (0.50kg)(2)

(1)With low profile filler bracket removed.
(2)With carrier removed.

Chassis Reliability/Maintainability	
MTBF	500,000 Hours
MTTR	5 Minutes
Preventive Maintenance	None

Electrical Specifications		
Input	+5V	78mA
	+12V	11µA

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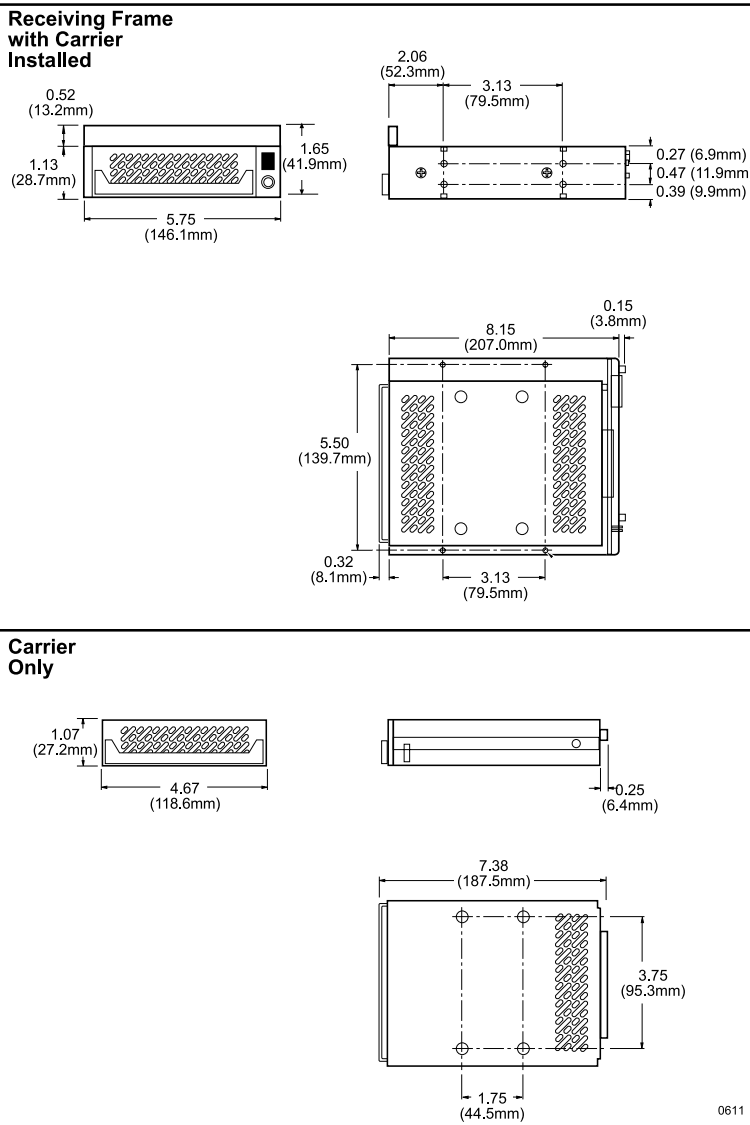
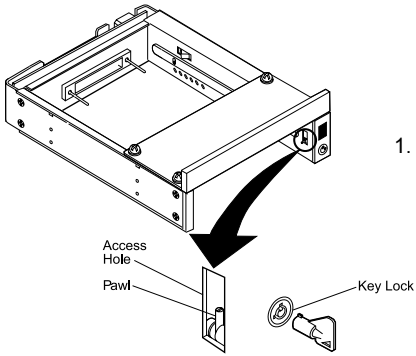


Figure A-1: DE75i-A100 Physical Dimensions
(Dimensions are for reference only)

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Appendix B - Attaching the ON/OFF Key

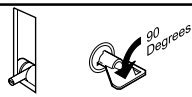
The following information will provide the necessary steps to attach the ON/OFF key to the key lock mechanism so that it is non-removable, preventing accidental key loss. The procedure can be reversed at a later date to revert back to a removable key.



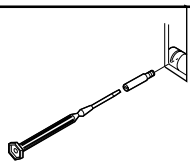
1. Make certain power is OFF to the receiving frame.

   Locate the rectangular shaped key lock mechanism access hole on the inside of the receiving frame. Note that the pawl is in an upright position.

   Insert the key into the key lock.



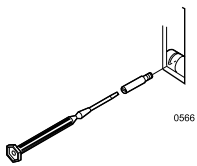
2. Rotate the key 90 degrees counterclockwise so that the pawl is visible in the access hole as shown in the figure at left.



3. Using the provided alignment tool, unscrew and remove the pawl from the access hole.



4. Rotate the key 180 degrees clockwise.



5. Reinstall the pawl into the access hole with the alignment tool.

   Your key is now attached to the key lock mechanism.

Figure B-1: Attaching the ON/OFF Key

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Appendix C - Optional Accessories

Carrying Case



Figure C-1: Carrying Case

The optional molded plastic carrying case (P/N S20E104) is designed to transport the DE75i-A100 carrier from one location to another in a safe, impact and moisture resistant environment. Its compact dimensions, 7” long x 9” wide x 3.5” high, make it easy to carry and to store. The foam lining is contoured to fit a single low-profile Data Express carrier (remove the foam piece shown in the illustration above). Contact StorCase for further details and ordering information.

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