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**MODEL 500DHD**

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**DUAL HARD DRIVE CARD**

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The IED Model 500DHD Dual Hard Drive Card is a component of the IED 500ACS Announcement Control System. It is used for non-volatile storage of programs and data such as the operating system, the control program, the configuration files, and permanent message takes.

The 500DHD features RAID 1 technology to provide a continuous backup of all information stored on the hard drive in order to safeguard against accidental loss of data and to assure uninterrupted operation.

Some of the key features of the 500DHD include:

- Increased system reliability
- Prevents loss of data
- Provides intelligent monitoring of drive status
- Automatically detects new drives inserted in the system
- Automatically switches drives in the event of a drive failure
- Continuous visual indication of the status of the drives and the 500DHD card
- Audible indication of drive failure
- Supports IDE drives of any size
- Easy system upgrade - directly replaces the IED 500P (single) Hard Drive Card

The 500DHD appears as a single drive to the computer. Identical data is written simultaneously to both drives. Although the drives are designated as "Primary" and "Mirrored", their roles are frequently exchanged.

In the event of a drive failure, warning is given via LEDs and a buzzer, and the working drive automatically becomes the primary drive.

In the event of a failure, drive replacement is a simple procedure. Refer to Section 3, Group 58 Sub B for instructions.

The status of each drive and of the card is reported by 3 tricolor LEDs. The information can be interpreted as in Table 1.



## SPECIFICATIONS

### CONTROLS

- |                         |                       |
|-------------------------|-----------------------|
| 1. Buzzer Off . . . . . | Momentary push switch |
| 2. Reset . . . . .      | Momentary push switch |

### INDICATORS

See Table 1 below for LED indications.

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|------------------------------------|--------------|
| 1. Primary Drive Status . . . . .  | Tricolor LED |
| 2. Mirrored Drive Status . . . . . | Tricolor LED |
| 3. 500DHD Status . . . . .         | Tricolor LED |
| 4. Drive Failure . . . . .         | Buzzer       |

### CONNECTORS AND CABLES

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|------------------------------|---|
| 1. Drive Power (2) . . . . . | Phoenix17 57 02 2<br>3-pin pluggable screw terminal connector     |
| 2. Drive Data (2) . . . . .  | Standard IDE ribbon cable and connectors, approx. 2 ½" L          |
| 3. Card data . . . . .       | Standard IDE ribbon cable and connectors, length per installation |

### MECHANICAL

- |   |                   |
|---|-------------------|
| 1. Size (maximum overall dimensions as viewed from the front) |                   |
| Height . . . . .  | (31.0 cm) 12.2"   |
| Width . . . . .   | (9.23 cm) 1.27"   |
| Depth . . . . .   | (21.3 cm) 8.38"   |
| 2. Weight . . . . .   | (1.56 kg) 3.44 lb |

### ENVIRONMENTAL

- |  |                                   |
|--|-----------------------------------|
| 1. Operating Temperature Range . . . . . | (+32 °F - +104 °F) 0 °C - +40 °C  |
| 2. Storage Temperature Range. . . . .    | (-40 °F - +158 °F) -40 °C - +0 °C |

PRIMARY OR MIRROR LED		STATUS LED	
LED COLOR	INDICATION	LED COLOR	INDICATION
Solid Green	Drive installed on current channel	Solid Green	Drives are in Mirror mode, data is identical
Flashing Orange	Scanning the channel for drives	Flashing Green	Data may not be identical
Solid Red	Drive not installed	Solid Red	Drives are not in Mirror mode
Flashing Red	Channel marked as bad	Flashing Red	Copy/Compare is in progress
Orange	Channel activity (read/write)	Orange	Copy/Compare is in progress (under Windows)

Table 1 - Interpretation of LED Indicators

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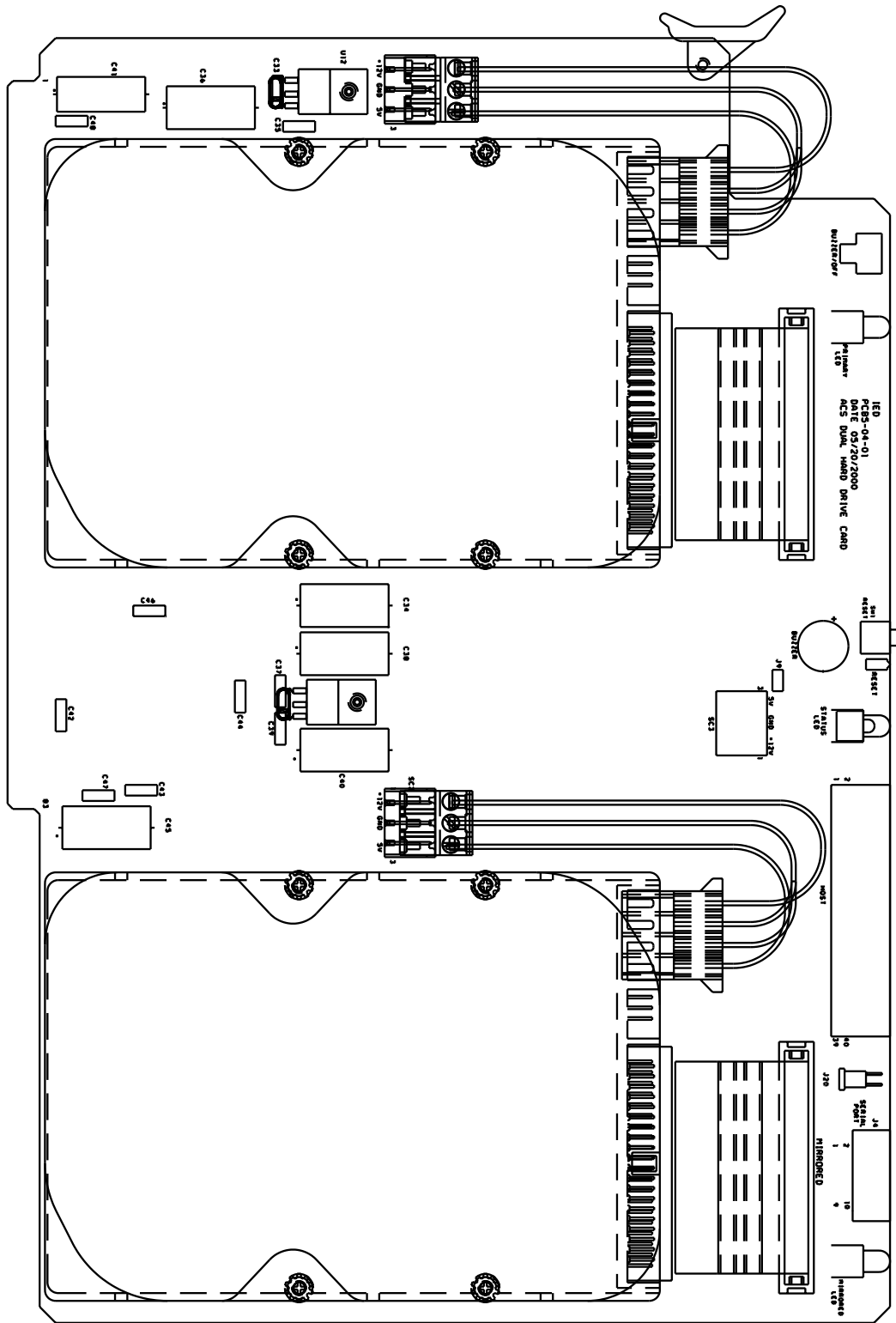


Figure 1 - 500DHD Card  
Side View



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