

MODEL 510CPU**CENTRAL PROCESSING UNIT**

The Model 510CPU is one of the plug-in cards that make up the Model 500ACS Announcement Control System. State of the art processing allows this card to manage the operation of the ACS without the need of an external computer. Some of its many functions include:

- Controls the microphone stations through the 500C and 510N card(s)
- Manages audio routing by controlling the 500C, 510N, and 500D card(s)
- Energizes/de-energizes relays on the 500DR card(s)
- Manages Record/Playback on the 500R card(s)
- Manages non-volatile storage including ACS configuration data and digital audio which is loaded from the on-board hard drive to/from the 500R card
- Communicates with the 590 Rack Mount Computer through its Ethernet port

The 510CPU occupies one card slot and plugs into the 510CT terminal strip which mounts on the rear of the 500M Mainframe. The 510CT provides rear panel connections for Ethernet, VGA, keyboard, and serial ports (See 3 03 B for connections).

Standard features of the 510CPU include:

- On-board hard drive
- External controls/connectors on rear panel
- 16 MB on-board flash memory

Optional features of the 510CPU include:

- Two 510CPUs may be used for redundancy with both units on line at all times
- 16 MB of flash memory allows the operating system and 4 minutes of messages to be stored without requiring the hard drive for emergency operation.

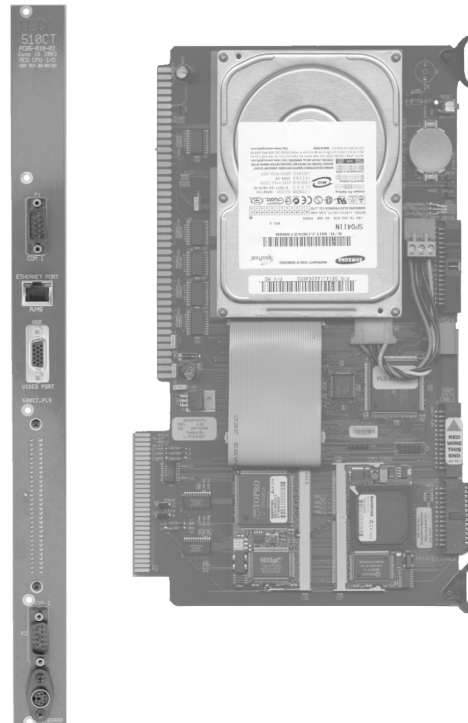


Figure 1 - 510CPU card, component side view (right) and 510CT (left) for mainframe rear panel connections (see paragraph above)

SPECIFICATIONS

ELECTRICAL

1. CPU Type	AMD Elan™
2. CPU Speed	133 MHz
3. Onboard Flash.	16 Mbyte
4. RAM	16 Mbyte
5. Serial Interface	(2) RS232C Ports
6. Parallel Interface.	(2) Bi-directional Parallel Ports
7. Power Supply	
Supply Voltage Range	
+5 V	+4.75 V - +5.25 V
+12 V	+11.4 V - +12.6 V
Supply Current	
+5 V	1 A, Max.
+12 V	1 A, Max.

INDICATORS

1. Ethernet Data	Yellow LED
2. Ethernet Link	Green LED
3. IDE Busy	Yellow LED
4. CPU Status (Multi-color LED).	Green = Running Yellow = Standby Red = Fault

CONNECTORS

1. Parallel Port (2)	26-pin Right Angle Header
2. Floppy Diskette Drive	34-pin Right Angle Header
3. Floppy Drive Power	3-pin Phoenix connector

MECHANICAL

1. Width	(2.22 cm) 0.875"
2. Length	(18.4 cm) 7.25"
3. Height	(30.5 cm) 12.0"
4. Weight	(0.78 kg) 1.72 lb

ENVIRONMENTAL

1. Operating Temperature Range	(+32 °F - 104 °F) 0 °C - +40 °C
2. Storage Temperature Range	(-40 °F - 158 °F) -40 °C - +70 °C

Note: Features and specifications are subject to change without notice.

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