# Central Data Processor Model 2090-I

**allweatherinc**

## OVERVIEW

Meteorological data are collected for an AWOS (Automated Weather Observing System) by sensors located near a runway, and are then transmitted by the Data Collection Platform (DCP) at the sensor tower to the Central Data Processor (CDP). The Model 2090-I CDP consists of a central processor, a high-resolution display, a hard disk drive, floppy disk drive, a keyboard, and a mouse. The DCP receives data from the DCP and outputs current weather data to the optional Remote Display System (RDS).

The CDP 's software uses an interactive menu system to configure and display the AWOS data. With the click of a mouse, the user can customize the system's operation or access nested menus containing archived sensor output and maintenance data.

Up to two 90-second voice remarks can be entered by the operator at the CDP, and these will then be appended to the outgoing voice report. The voice remark is sometimes used in place of an Automatic Terminal Information System, or ATIS. Weather remarks are also entered at the CDP for transmission to the remote displays.

A running record of measured weather conditions and overall system operation is maintained in the CDP's archive files. This data is retained for one year. An archive file is an automatic report written to nonvolatile memory once every five minutes. These archive files may be accessed at any time for viewing or printing using the *Log Menu*, available to authorized users.

# SPECIFICATIONS

| Parameter | Specification |
|---|---|
| Chassis | 4U ATX chassis with three 5.25" and one 3.5" external drive bays |
| ATX | 500 W with PFC (24-pin power connector and 8-pin power connector) |
| Motherboard | mATX -Q45 - LGA775 Socket supports up to 8GB of DDR3 1066 MHz memory<br>UDMA133 (4x)<br>SATA-300 - Dual Gigabit Ethernet<br>Intel GMA 400 video VGA output<br>HD Audio (8-channel)<br>PCI (2), PCI-E x16 (1), PCI-E x4 (1) |
| CPU | Intel Core 2 Duo E8400/3GHZ (1333 MHz)<br>LGA775 socket – L2 6 MB |
| Memory | 800 MHz DDR2 AM2 non-ECC<br>2 × 512MB |
| Serial ATA | Built-in SATA2 controller 6x SATA (3 Gbps) drive support<br>80 GB Barracuda 7200.10 SATA<br>8 MB cache |
| Optical Drive | DVD-RAM/±R/±RW 24x 8x 16x SATA internal 5.25" |
| Rail Slides | 20" for 2U-8U chassis (2) |
| USB Ports | 12 USB ports<br>(6 rear USB ports + 2 on-board with 2 internal headers) |
| Display | 17" LCD<br>(1280 x 1024) |

# ORDERING INFORMATION

| Part Number | Description |
|---|---|
| 2090-I | Central Data Processor |

# DIMENSIONS & WEIGHTS

| Dimensions | 17.0" x 20.1" x 6.95"<br>(43.2 cm x 51.1 cm x 17.7 cm) |
|---|---|
| Weight | 30 lb (13.6 kg) |
| Shipping Weight | 32 lb (14.6 kg) |

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