# AWOS Rack-Mounted Central Data Processor

**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 rack-mounted CDP consists of a central processor, a hard disk drive, and an optical disk drive. The CDP receives data from the DCP and outputs current weather data to an optional Remote Display System (RDS).

Two CDPs can be operated in a rack to provide redundancy. The dual hot-swappable CDPs allow the system to be safeguarded with backup processing to ensure that, should one CDP be lost, the system will maintain uninterrupted processing and continue to provide accurate data for the safety of aircraft and airport personnel.

A rack-mounted high-resolution display and keyboard touchpad drawer are included in the rack. Networking and an uniterruptible power supply (UPS) can also be installed in the rack.

The CDP's MetObserver 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.

- Multiple runway support
- Configurable units and alarms
- Language options
- ATIS and AFTN interface
- Ethernet connectivity
- USB and serial interfaces\
- Customizable on request

*CDP Rack with*
*Dual "Hot-swap" CDPs &*
*GPS Time Synchronization options*

**DATA PROCESSORSS**

# 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) |

# ORDERING INFORMATION

| Part Number | Description |
|---|---|
| M403499-00 | AWOS Single Rack-Mounted Central Data Processor |
| M403513-00 | AWOS Dual Rack-Mounted Central Data Processor, Hot Swappable |
| M406112-03 | Central Data Processor |
| M406350-00 | Keyboard Touchpad Drawer |
| M482198-00 | 19" Flat Panel Monitor |
| M488602-00 | Serial GPS |
| M497110-00 | Black Panel Rack |
| 20913-C | UPS 120 VAC |
| 20913-D | UPS 240 VAC |



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