



Redwood WHITE

Technical Reference Sheet



TRS-1026-05

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Aveco

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INTRODUCTION

OVERVIEW

Aveco’s Redwood WHITE video engine is designed for effective playout and integrated channel origination as well as studio and MCR-oriented graphics engines.

DESCRIPTION

Redwood WHITE provides a platform for clip playout, multi-layer graphics insertion including DVE, and many other broadcast features. Redwood WHITE is designed to run on COTS hardware, deliverable as Aveco turnkey or as software-only with hardware locally provided. Redwood WHITE is fully integrated with Aveco’s ASTRA MCR and ASTRA MAM, providing cost efficiency and a high performance solution.

Assembly of Redwood WHITE: connect monitor to the Display OUT port and ethernet cables for control and media networks. Note that the unit requires a monitor to be connected at all times.

| Unit | Control Ports |
|---------------|---------------|
| Redwood WHITE | Ethernet RJ45 |

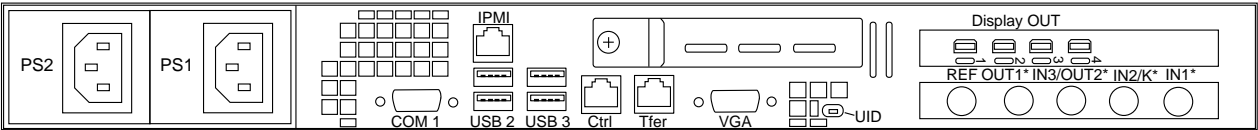
PACKAGE CONTENTS

When delivering Redwood WHITE, Aveco will include the server unit and only the power cables necessary to supply power to the server.

| Qty | Content |
|-----|-----------------|
| 1 | Redwood WHITE |
| 2 | Power Cable, 1m |

TECHNICAL SPECIFICATIONS

Figure 1. Back Panel Schematic



*Actual functionality depends on individual system configuration.

| Connectivity | |
|-------------------|---|
| Power Connector | IEC/C14 |
| Control Interface | Ethernet RJ45 |
| SDI I/O | SD-SDI (SMPTE ST 259M) HD-SDI (SMPTE ST 292M) 3G-SDI (SMPTE 424M) BNC female |
| Reference | Black and burst or Tri-level sync |

| Physical | |
|----------------|---------------------------------|
| Weight | 16kg |
| Dimensions(mm) | 1U (483mm x 45mm), depth 650 mm |

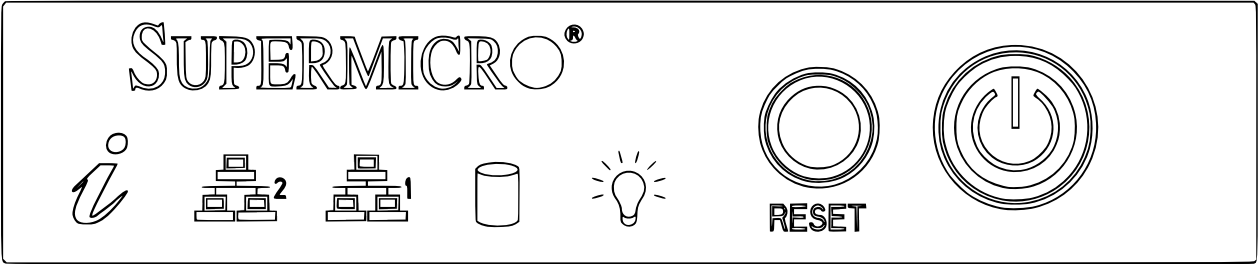
| Power | |
|-------------------|--|
| Power Supply | Redundant 2x500W, hot-swappable 100-240V AC, 50-60 Hz |
| Power Consumption | Max. 200W |

OPERATION

CHASSIS CONTROL PANEL

The chassis control panel is found in the upper right corner of the front panel. The control panel contains a power button, reset button, and several LED indicators.

Figure 2. Chassis Control Panel



POWER ON THE SERVER

The server is switched on using the POWER button on the front panel of the server.

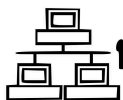
POWER OFF THE SERVER

Since the server runs on Microsoft Windows, the server is shut down simply by navigating to the Windows Start menu and selecting **Shut Down**.

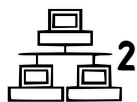
LED INDICATORS



| Information LED | |
|-----------------------|---|
| Status | Description |
| Solid Red | Overheating has occurred |
| Blinking Red (1Hz) | Fan failure, check for an inoperative fan |
| Blinking Red (0.25Hz) | Power failure, check for an inoperative PSU |
| Solid Blue | Local UID function has been activated |
| Blinking Blue (300ms) | Remote UID function has been activated |



NIC1: Indicates network activity on GLAN1 when flashing.



NIC2: Indicates network activity on GLAN2 when flashing.



HDD: Indicates SAS/SATA activity when flashing.



Power: Indicates power is being supplied to the system's PSUs. This LED is normally illuminated when the system is powered on.

TROUBLESHOOTING

HARD DISK FAILURE AND DIAGNOSIS

The hard disks are configured in a RAID setup and are hot-swappable so that any faulty hard disk can be removed and replaced without any interruptions to the system's operation.

Each SAS/SATA drive carrier is equipped with two LEDs.

| Drive Carrier LEDs | |
|--------------------|--|
| Color | Description |
| Green | Indicates drive activity. This LED blinks on and off when that particular drive is being accessed. |
| Red | Indicates an SAS/SATA drive failure. |

POWER SUPPLY FAILURE AND DIAGNOSIS

The power supplies are equipped with a status indicating LED to point out if overheating is present.

| Drive Carrier LEDs | |
|--------------------|---|
| Color | Description |
| Solid Green | System is powered on. |
| Solid Amber | System is powered off but plugged in |
| Blinking Amber | Internal temperature is at or above 63°C and will shut down if the temperature reaches 70°C |

 The Information LED on the chassis control panel will also indicate a power failure.

RAM FAILURE AND DIAGNOSIS

Memory errors can be quickly identified during system startup via a BIOS Error beep code. A beep code of 5 long, 1 short, signifies a memory error (no memory detected error) and the system will fail to boot up.