



Redwood WHITE

Technical Reference Sheet



TRS-1026-08

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Aveco

www.aveco.com

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Table of Contents

Introduction 1

 Overview 1

 Description 1

Package Contents 2

Technical Specifications 3

Operation 4

 Chassis Control Panel 4

 Power on the Server 4

 Power off the Server 4

 LED Indicators 4

Troubleshooting 6

 Hard Disk Failure and Diagnosis 6

 Power Supply Failure and Diagnosis 6

 RAM Failure and Diagnosis 6

List of Figures

1. Back Panel Schematic 3

2. Chassis Control Panel 4

INTRODUCTION

OVERVIEW

Aveco’s Redwood WHITE video engine is designed for integrated channel origination and playout with graphics overlay. It is suitable for studio and MCR-oriented workflows.

DESCRIPTION

Redwood WHITE is a platform for clip playout, multi-layer graphics insertion (including DVE), and other broadcast features. Redwood WHITE integrates seamlessly with Aveco’s ASTRA MCR and ASTRA Studio, offering a cost-effective and 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 or dummy monitor to be connected at all times

Unit	Control Ports
Redwood WHITE	Ethernet RJ45

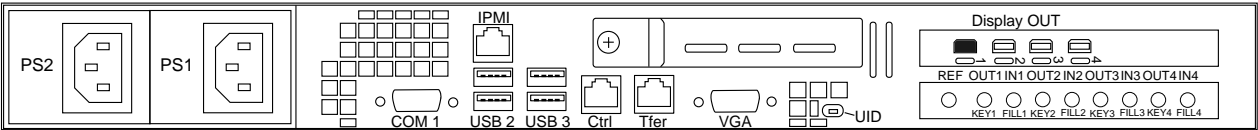
PACKAGE CONTENTS

As part of the delivery of Redwood WHITE, Aveco provides the server unit with token and the required power cables.

Qty	Content
1	Redwood WHITE
2	Power Cable, 1m
1	miniDP Token

TECHNICAL SPECIFICATIONS

Figure 1. Back Panel Schematic



*Actual functionality depends on individual system configuration.

Connectivity	
Power Connector	IEC/C14
Management Net	Ethernet RJ45
Control & Transfer	2x Ethernet RJ45 - 10Gb/s
SDI I/O	8x BIDI SH/HD DIN 1.0/2.3 FEMALE
Reference	Black and burst or Tri-level sync - DIN 1.0/2.3 FEMALE

Physical	
Weight	16kg
Dimensions(mm)	1U (483mm x 45mm), depth 630 mm

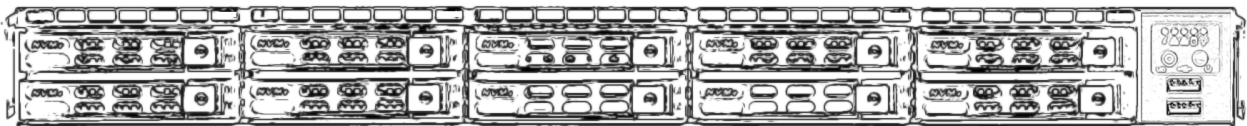
Power	
Power Supply	Redundant 2x500W, hot-swappable 100-240V AC, 50-60 Hz
Power Consumption	Max. 250W

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

Server can be shut down by POWER button press.

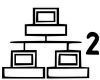
LED INDICATORS



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 NVMe 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 NVMe 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.