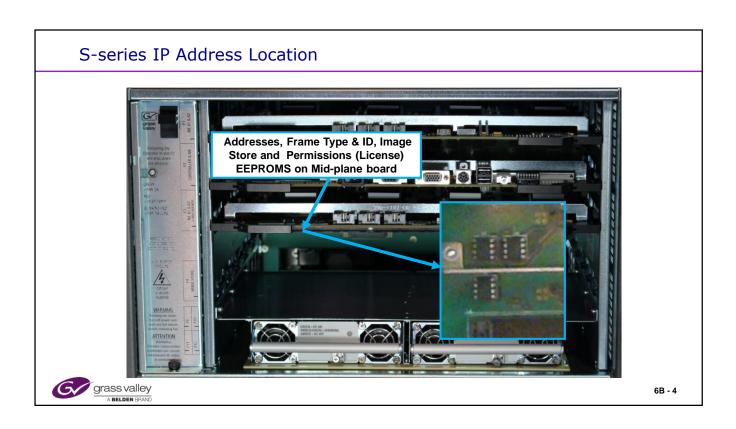


This shows the S-series frame with Triple ME boards and New controller card with on board Image Store.

The Image Store slot is not used in this configuration.

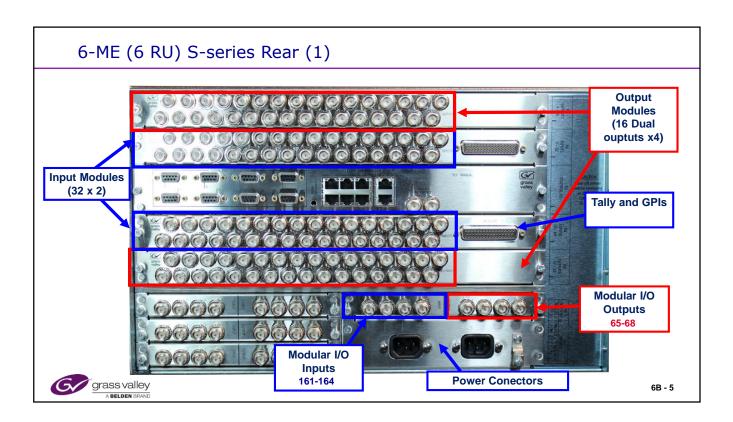


## **Backplane Hardware**

The IP address of the Frame Processor and Image Store, the system permissions (or software license options), last Operating Video Format are stored on 3 socketed EEPROMS on the Mid Plane board, above the M/E B slot connector.

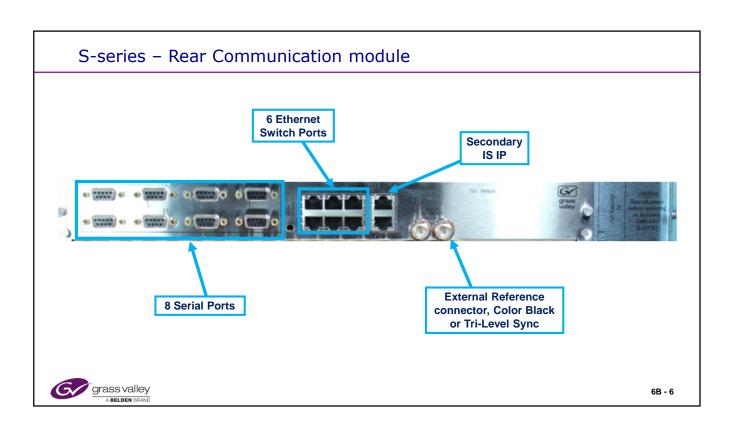
The System Name, Type (K-Frame) and Serial Number are also stored on these EEPROMs. This is also the registered customer ID number.

When replacing the frame or the Mid Plane Board, the licenses must be upgraded to the new frame. Either work with Customer Service to get a new license to install OR install the old programmed EEPROMS from the old frame into the newer frame with care.

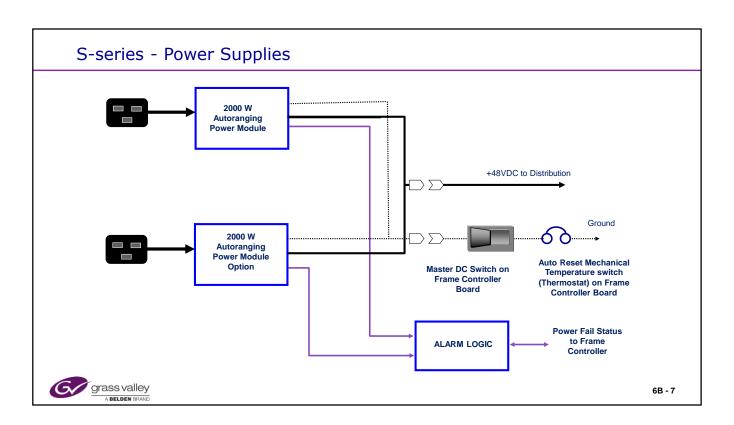


All rear modules are held in place with 2 screws. Output boards have 2 BNCs for each output signal.

Each modular I/O board has 4 Inputs and 4 Outputs.



The rear Communications module provides connections for 8 Serial ports, 6 ports of the internal 8 port Ethernet switch, an additional port for the Image Store, the loop-through External Reference and the Frame Power Supply.



## **Power Supply Module**

The same power supplies are used in the S-series but mounted inside the chassis/ The master DC switch is located on the Controller board.

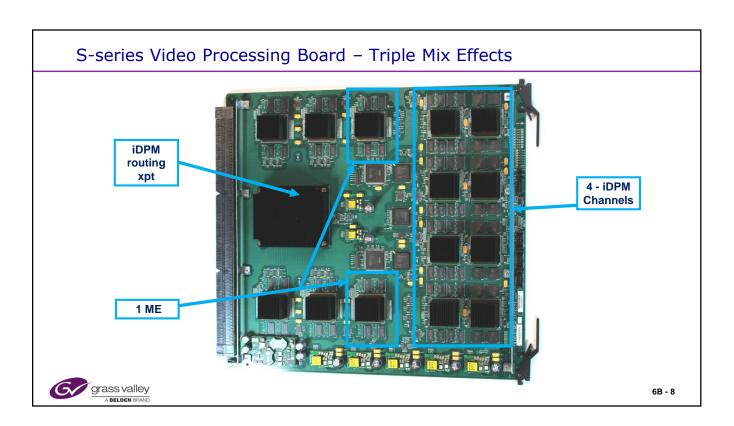
One power supply is standard with the 6 RU switcher and the second is an option..

All power supplies are hot swappable and true load sharing.

The power supplies will run on anything from 85 to 264 Volts A.C. at 47 to 63 Hertz.

The power supplies are controlled by a series D.C. ground circuit. The switch and mechanical thermostat on the Frame Controller board are in the circuit.

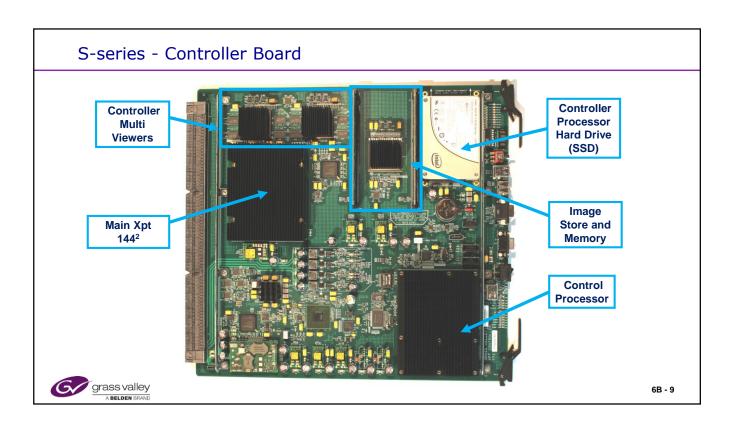
The Thermostat will shut the power supplies down when the temperature reaches 75 degrees C (167 F). This device will close the circuit when the temperature drops 5 to 8 degrees C.



The Video Processor Dual M E board has no field replaceable parts.

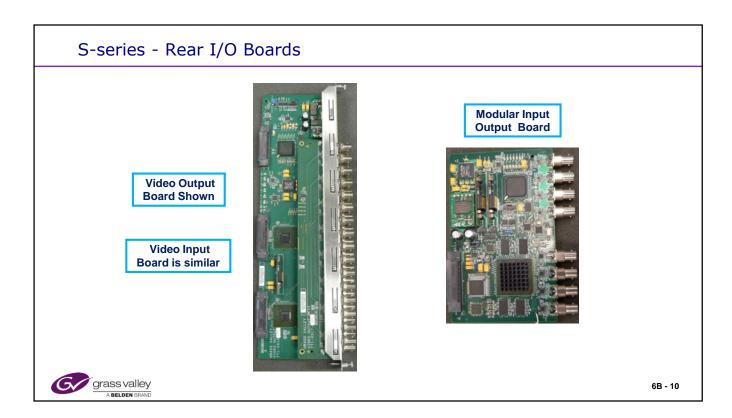
The board has 2 complete M Es (Keys, Wipes, Mixer, 2D-DPMs, ME View) 4 channels of iDPM, and an iDPM routing xpt.





The Controller board carries the Controller ME, the Main video routing Xpt, the ImageStore and it's 32GB of Memory, 2 MultiVirewers, the Controller Processor and its 120GB hard drive (SSD).

It also supports the Serial ports, Ethernet Switch, Sync circuitry and 2 Test Signal and 2 Background generators.



The main input and output boards look very similar.

The Output board (shown here) has 16 pairs of output BNCs

The Input board (Not shown) has 32 individual inputs.

The Modular I/O board is used for Set Def , Match Def or Bypass modes. In bypass it can be used as additional inputs and outputs. Note that if one input is set for Match def the corresponding Out put is set to Bypass. If the Output is set to Set Def the corresponding Input will be in Bypass.

S-serie	s - Web Browser	(1)				
G	rass valle Abelden Bra	E Web Access				
	Multi	Fan State	Speed	-	~	
Software Versions	Current Viewers	1 OK	3750 RPM	Processor	Version	Date
Frame Status		2 OK	3826 RPM	Frame RT Panel	V8.0.0d49 V8.0.0d49	Oct 14 2014 05:22:13 Oct 14 2014 .
Frame Message Log	Power Supply and Chassis Status			Menu Panel	V8.0.0d49	Oct 14 2014 07:20:44
Erame Network	Power Supply 1 Status : Present OK Power Supply 2 Status : Present OK Chassis Temperature : Normal	3 OK	3750 RPM	Aux Panel		
Address	Chassis temperature : Norman	4 OK	3605 RPM	Image Store	V8.0.0d49	Oct 14 2014 .
Frame Date & Time	Fan Status	-				
Frame Description SNMP Configuration	Fan Tray present					
		Facility LAN IP Address : 10.16 Subnet Mask : 255.2 Gateway IP : 10.16	55.248.0			
	Video Sync Status					
	Reference Signal : Present Reference Lock : Locked Video Frame Rate : 50 94/12	Save New Settings	IP addresses, you must r	reboot the frame for t	hem to take effec	

Web Browser access to the K–Frame processor showing Fame Status, Network Addresses and Software Versions.

This provides a quick way to verify the system operating condition.

						Board Name	Assembly Number	Assembly Rev	Serial Number	Manufact
						Controller	771-0625-00	X1	JS14060010	JS
						Control I/O	771-0518-50	X1	JG14120564	JG
						Power Supply Dist	771-0623-00	X2	JS14180005	JS
						Mix Effects A	771-0626-00	X2	JS14190026	JS
Slot	Slot Name	Present	Power	PCIe Link	Temp State	Mix Effects B	771-0626-00	X1	JS14130004	JS
Number	Slot Ivanic		1 ower	Up	remp state	Video Input 1-32 Base Board	771-0514-01	X1	JS13420006	JS
F2 Co	ontroller	Yes	ОК	ОК	Normal	Video Input 1-32 Mezzanine	771-0515-01	X1	JS13420009	JS
F1 Mi	ix Effects A	Yes	ОК	ОК	Normal	Video Input 1-32 Assembly				
F3 Mi	ix Effects B	Yes	ОК	ОК	Normal	Video Input 33-64 Base Board	771-0514-01	A1	JS14220006	JS
F2 M	vlseXpt	Yes	ОК	ОК	Cold					
R2 Vi	deo Input 1-32	Yes	ОК	ОК	Cold					
R4 Vi	deo Input 33-64	Yes	ОК	ОК	Cold					
R1 Vi	deo Output 1-16	Yes	ОК	ОК	Cold					
R5 Vi	deo Output 17-32	Yes	ОК	ОК	Cold					
R6 M	odular I/O 1	Yes	ОК	ОК	Normal					
R7 M	odular I/O 2	Yes	ОК	ОК	Normal					
R8 M	odular I/O 3	Yes	ок	ок	Normal					

'Frame Status' also shows the state of all Front and Rear frame boards.

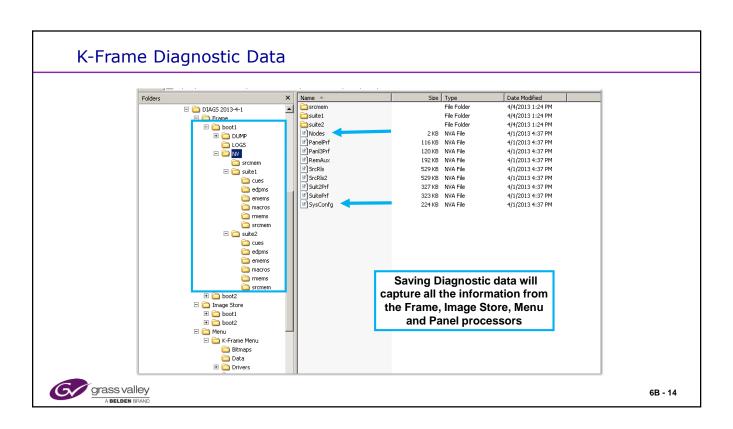
6B	-	13
00		

S-series - Logs	
Schooner Frame Message Log: /ahci00:2/boot1/logs/lo Previous Current Next	g24.txt
* 18 Nov 2014 14:38:05 (0) = main.map offset = 0x14e62140	
I 18 Nov 2014 14:38:05 (0)	A reboot will always start a
I 18 Nov 2014 14:38:05 (0) K-FRAME I 18 Nov 2014 14:38:05 (0) Copyright Grass Valley.	new page with the header
I 16 Nov 2014 14:38:05 (0) All Rights Reserved.	information
I 18 Nov 2014 14:38:05 (0) Version V8.1.0d02, built Nov 18 2014 13:18:22	
I 18 Nov 2014 14:38:05 (0) Current Primary partition version.txt is V8.0.0d12	
I 18 Nov 2014 14:38:05 (0) VxWork Kernel creation date: Oct 8 2014, 16:08:31	
I 18 Nov 2014 14:38:05 (0) Repeats:1	
I 18 Nov 2014 14:38:05 (0) Persistent Log Dump!	
I 18 Nov 2014 14:38:05 (0) **** Nothing to dump! ****	
I 18 Nov 2014 14:38:05 (0) Persistent Log Dump End!	
I 18 Nov 2014 14:38:05 (0) ===================================	=
* 18 Nov 2014 14:38:05 (0) HAD F2C00000: M/E Board 0, Num.Ver.Rev 7000.a.0, Ti	imeStamp 01/27/2014 15:13, DMA:Yes
* 18 Nov 2014 14:38:05 (0) HAD F3000000: M/E Board 1, Num.Ver.Rev 7000.a.0, Ti	imeStamp 01/27/2014 15:13, DMA:Yes

The K frame logs can be viewed in the web browser or from any captured Diagnostic data file.

Current shows the most current page in the web browser.

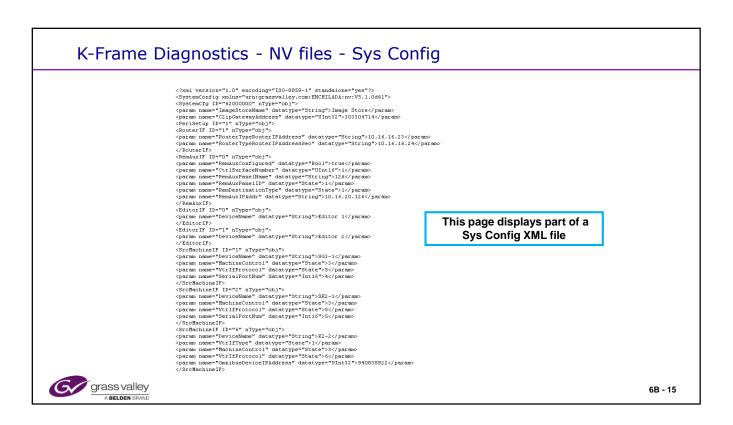
A reboot will always appear at the top of the page.



The NV files can be examined in the Diagnostic Data.

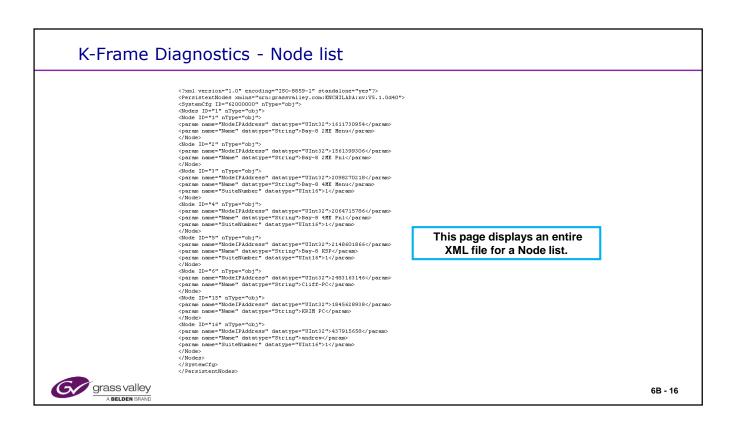
The Nodes list shows all of the IP information for the panels and Menus.

The System Configuration will show all of the Engineering information.



An example of a Sys Config file from captured Diagnostic Data NV file.





An example of a K-Frame Node List file from captured Diagnostic Data NV file.

