

## Safety Information



**READ AND FOLLOW THESE SAFETY INSTRUCTIONS!**

**WARNING**



**HIGH VOLTAGE:** Indicates presence of hazardous voltage. Unsafe practice could result in severe personal injury or death.



**STATIC SENSITIVE DEVICES:** Handle only at static safe work stations.



**Waste Electrical and Electronic Equipment (WEEE) Directive:** (European Union) At end of useful life, this product should be deposited at an appropriate waste disposal facility for recycling and disposal. Do not dispose of with household waste.



**CONTACT ETS-LINDGREN PRIOR TO SERVICING.** Servicing (or modifying) the unit by yourself may void your warranty if you attempt to service the unit by yourself; disconnect all electrical power before starting. There are voltages at many points in the instrument that could, if contacted, cause personal injury. Only trained service personnel should perform adjustments and/or service procedures upon this instrument. Capacitors inside this instrument may still be CHARGED even when instrument is disconnected from its power source.

For additional safety information, see the *Product Information Bulletin* included with your shipment.

## Product Information Bulletin

See the ETS-Lindgren *Product Information Bulletin* included with your shipment for the following:

- Warranty information
- Safety, regulatory, and other product marking information
- Steps to receive your shipment
- Steps to return a component for service
- ETS-Lindgren calibration service
- ETS-Lindgren contact information

## Warranty Information

For warranty information, see the *Product Information Bulletin*.

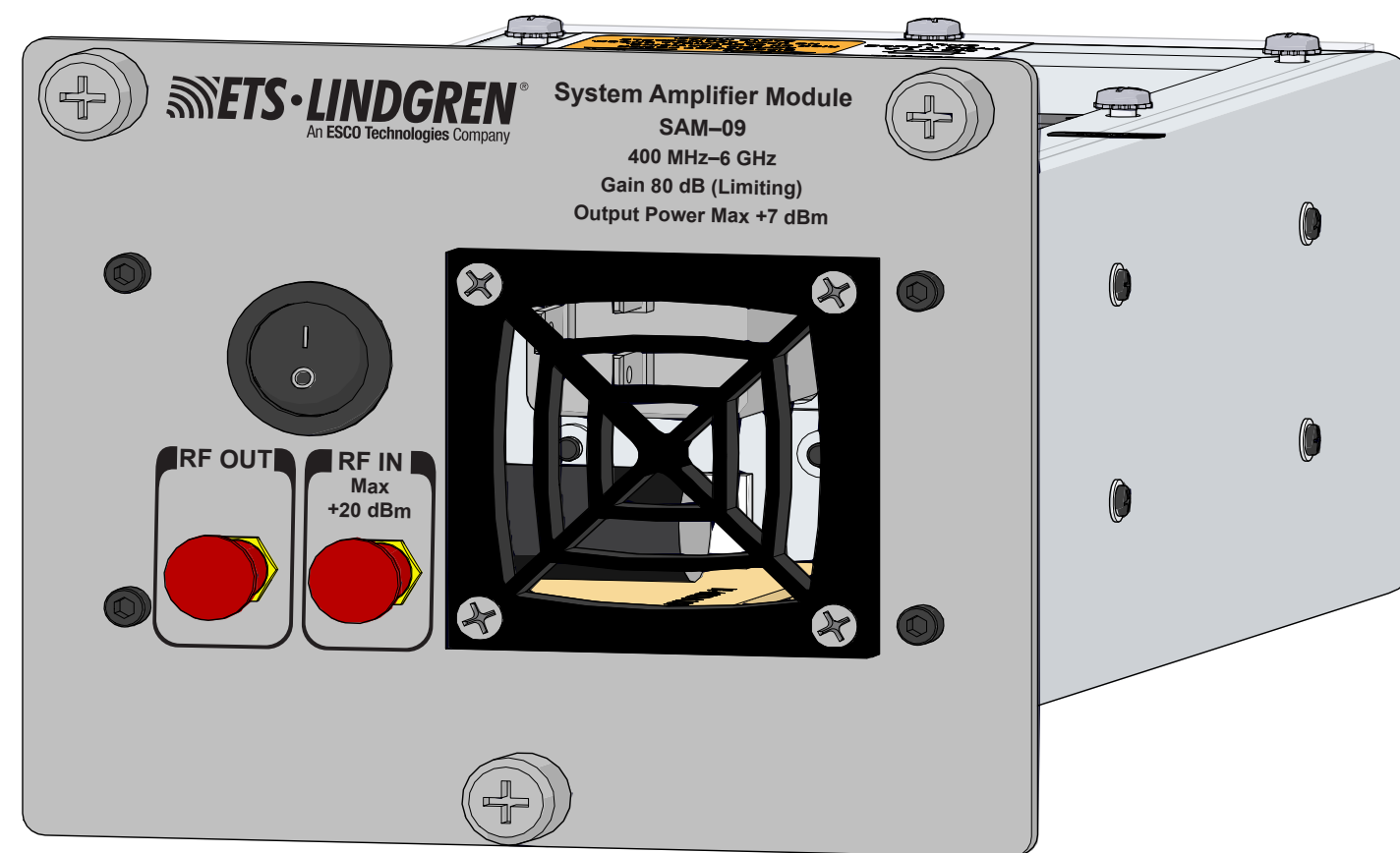


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Please see [ets-lindgren.com](http://ets-lindgren.com) for a list of all ETS-Lindgren offices.

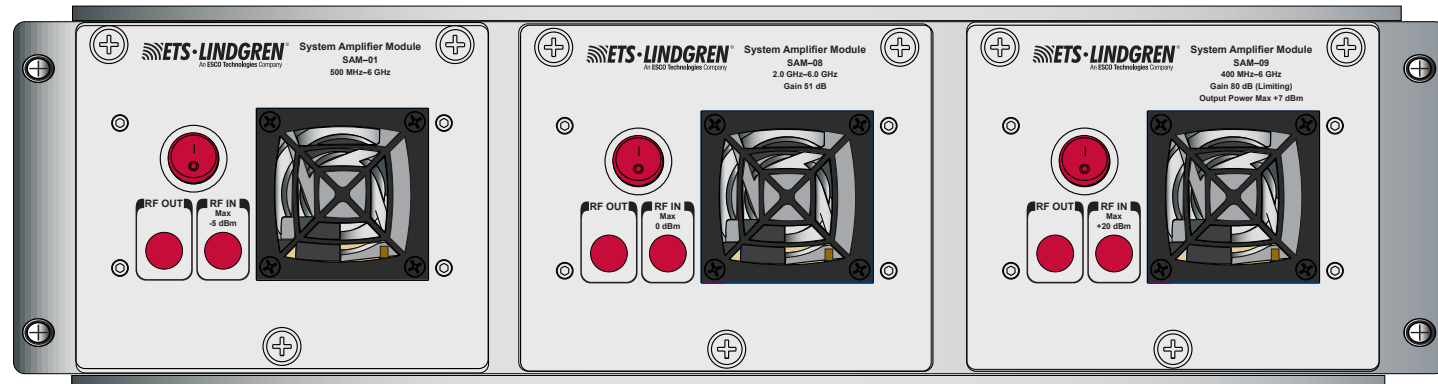
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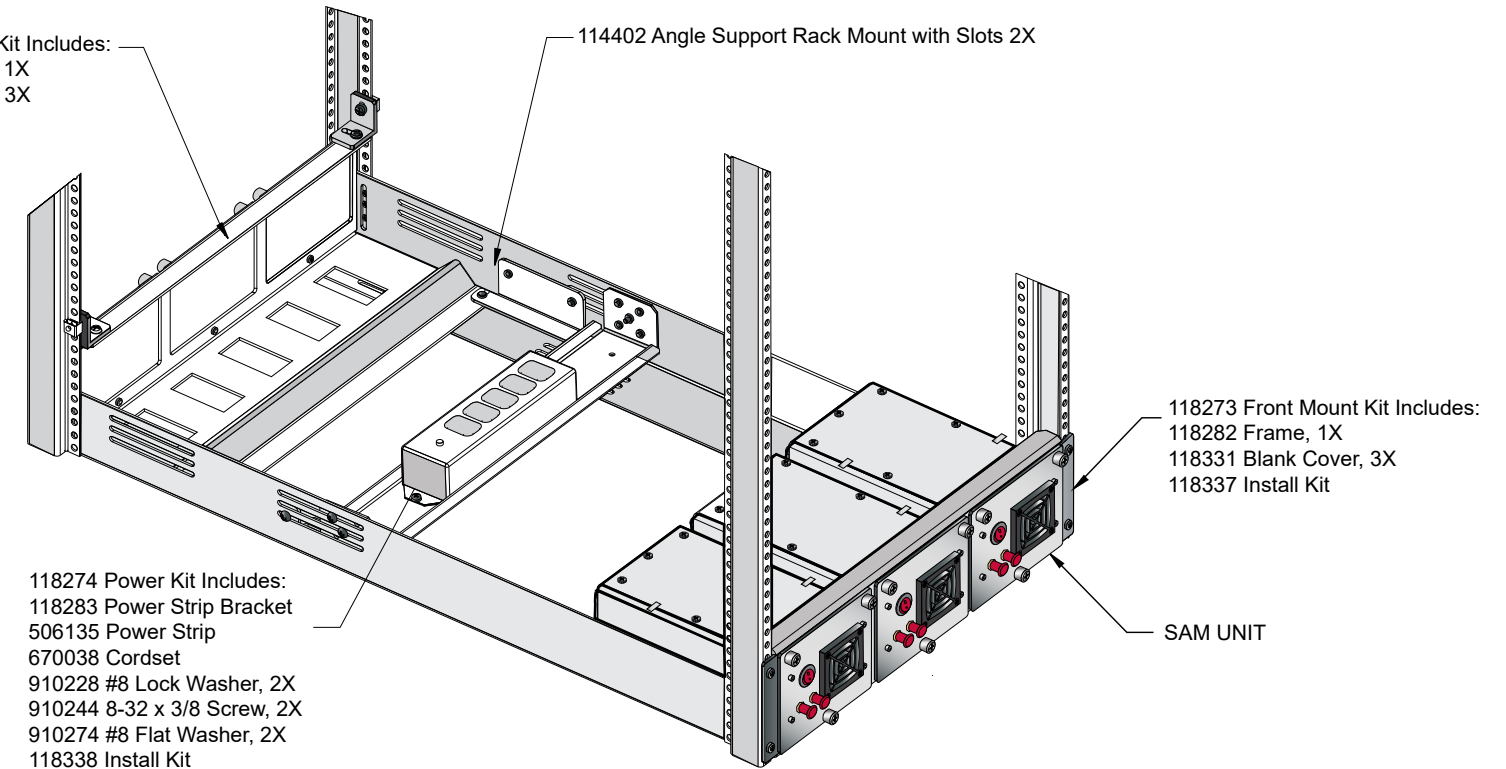


**Note:** ETS-Lindgren may substitute a similar part with the same functionality for another part.

**!** Before connecting any components, see **Safety Information** on the back page of this document.



118272 Rear Mount Kit Includes:  
118329 Rear Frame, 1X  
118331 Blank Cover, 3X  
118336 Install Kit



Note: The SAM-09 is a limiting amplifier. Its high gain is a result of the constant output power. Limiting amplifiers help to protect equipment with limited input ranges.

Model & P/N	Freq Range	Gain	Max Input Power	NF	P1dB	VSWR
SAM-01 / 118281	500 MHz - 3 GHz	Min 27 dB, Typical 30 dB	-5 dBm (Saturated)	4.5 dB Typical	Min 25 dBm, Typ 26 dBm	2.0:1
	3 GHz - 6 GHz	Min 29 dB, Typical 31 dB		2.0 dB Typical, 3.5 dB Max	Min 24 dBm, Typ 25 dBm	
SAM-02 / 118625	30 MHz - 6 GHz	55-58 dB	-10 dBm (Saturated)	3.0 dB Max above 200MHz 5.0 dB Below 200MHz	+20 dBm	2.0:1
SAM-03 / 118626	1 MHz - 1.1 GHz	45-48 dB	-10 dBm (Saturated)	3.5 dB Max above 200MHz 5.0 dB Below 200MHz	+20 dBm	2.0:1
SAM-05 / 118697	30 MHz - 18 GHz	45-48 dB	-10 dBm (Saturated)	5.0 MAX / 4.0 Typical (Above 250 MHz) 7.0 Typical (Below 250 MHz)	+17 dBm	2.2:1
SAM-06 / 1697983	100 MHz - 6 GHz	30 dB	-5 dBm (Saturated)	3.0 dB Typical	+26 dBm	2.0:1
SAM-07 / 119432	2 GHz - 2.7 GHz	45 dB	-38 dBm (Saturated)	1.0 dB Typical, 1.5 dB Max	+7 dBm	1.5:1
SAM-08 / 126522	2 GHz - 6 GHz	51 dB	-10 dBm (Saturated)	1.3 dB Max	10 dBm	2.5:1
SAM-09 / 1694055	400 MHz - 6 GHz	80 dB (Limiting)	+20 dBm	1.5 Typical, 3.5 Max	N/A	2.0:1