

Passive/Active Cooling Solution for Avnet XRF AMD RFSoc System-on-Modules

The XRF Heatsink V2 (AES-XRF-HEATSINK-V2) is designed to meet the thermal relief demands of XRF modules operating in a laboratory environment at 25°C with external convection. Airflow through the aluminum fins must be provided externally or by attaching the optional fan assembly (AES-XRF-HEATSINK-V2-FAN). This heatsink assembly can be ordered at avnet.me/xrf-fansink.

Quick-start instructions for assembling XRF heatsinks to the XRF module are included in the XRF Getting Started Guide and further explained in detail in XRF Thermal Considerations – both documents are available by request at RFINFO@avnet.com.

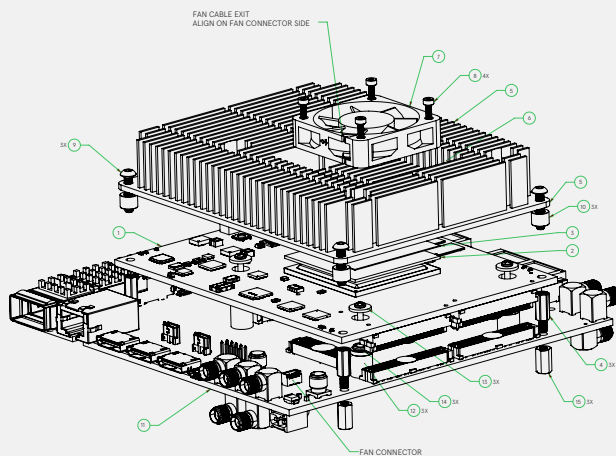
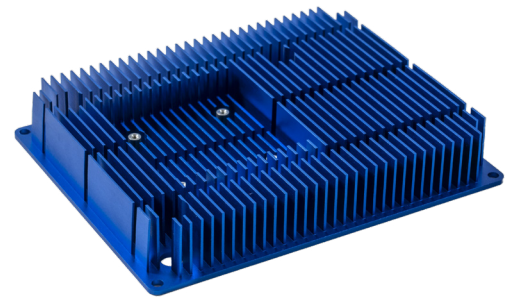
Important Considerations

Careful thermal analysis must be performed before using AES-XRF-HEATSINK-V2 in a deployed product as it was designed strictly to meet the needs of software developers operating the module in a controlled laboratory environment.

XRF products are intended to operate in condensation-free environments only. If subjected to cycling within a thermal chamber, Dry Air Purge or Gaseous Nitrogen (GN2) should be used to minimize condensation. If subjected to cycling outside of a controlled chamber, conformal coating or other measures may be required to avoid damage due to condensation.

Custom XRF Thermal Solutions:

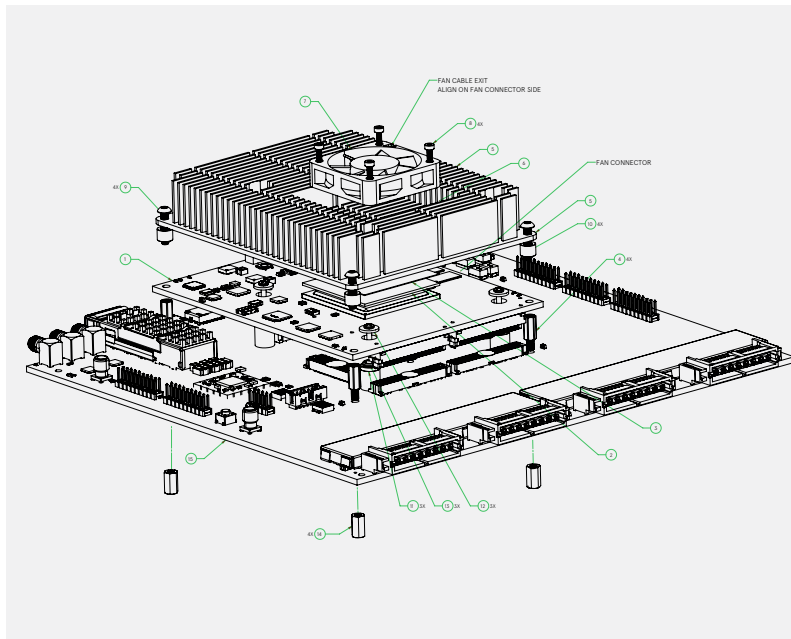
Avnet also offers customized cooling solution development for your system. Please contact your Avnet sales representative or RFINFO@avnet.com.



Item #	Part #	Description	Qty.
1	VARIES	ELK DAQ 8 SOM	1
2	SUPPLIED	GAP PAD 40X40X1MM	1
3	SUPPLIED	GRAPHITE HEAT PAD 40X40X.03mm	1
4	95783A057	NYLON 6/6 M3X0.5mm MALE-FEMALE THREADED HEX STANDOFF	3
5	008001113C	ELK FAN SINK	1
6	INSTALLED ON HEATFRAME	STANDOFF, CLINCH, THD, 2X8, M2	4
7	AFB405MA-A	FAN	1
8	91292A835	SCREW M2 X 0.4 mm 18-8 STAINLESS STEEL SOCKET HEAD	4
9	92095A168	BUTTON HEAD HEX DRIVE SCREW	3
10	92510A441	ALUMINUM UNTHREADED SPACER	3
11	VARIES	ELK DAQ 8 CARRIER	1
12	INSTALLED ON CARRIER	PRESSFIT STANDOFF	3
13	INSTALLED ON CARRIER	HOLD DOWN SCREW AND WASHER	3
14	INSTALLED ON CARRIER	HOLD DOWN JACKSCREW	3
15	1319N23	NYLON 6/6 PLASTIC COUPLING NUT	3

XR8 and XRF8 Carrier with XRF Heatsink V2 with optional Fan

For further information contact your local Avnet sales representative or RFINFO@avnet.com.



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13	INSTALLED ON CARRIER	HOLD DOWN JACKSCREW	3
14	1319N23	NYLON 6/6 PLASTIC COUPLING NUT	4
15	VARIES	ELK DAQ 16 CARRIER	1

XR16 and XRF16 Carrier with XRF Heatsink V2 with optional Fan

Parts

Part number	Description	For more information
AES-XRF-HEATSINK-V2	XRF Heatsink Passive Cooling Solution, V2	avnet.me/xrf-passive-cooling

Related parts

Part number	Description	For more information
AES-XRF8-ZU48-G	XRF8™ AMD RFSoc System-on-Module 8-Channel / Gen-3 / 6 GHz with SD-FEC	avnet.me/xrf8-som
AES-XRF16-ZU49-G	XRF16™ AMD RFSoc System-on-Module 16-Channel / Gen-3 / 6 GHz	avnet.me/xrf16gen3-som-pdp
AES-XRF-HEATSINK-V2-FAN	Optional fan for the XRF Heatsink Passive Cooling Solution V2	avnet.me/xrf-heatsink-fan

Countries available for purchase: Americas, EMEA

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