

## HEAT SINKS for MULTI-MODE TRANSMITTERS

Quasonix offers a number of heat sinks for use with TIMTER™ transmitters and nanoTX™ transmitters. The heat sink required for a particular transmitter depends heavily on the installation. Factors such as altitude, air temperature, air flow, and mass of the mounting surface all have a substantial impact on the flow of heat away from the transmitter.

It is important that the bottom surface (the face opposite the product label) be securely attached to a baseplate capable of dissipating the power produced by the transmitter model in use. This mounting baseplate must be flat, smooth, and clean.

Quasonix offers different types of integrated and add-on heat sinks, as described in this datasheet. Please contact Quasonix for heat sink recommendations for your particular TIMTER™ transmitter.

Regardless of the heat sink, Quasonix strongly suggests using a thermal pad, such as Q-Pad® II from Bergquist.



- **Fan-cooled Heat Sink**  
(P/N QSX-AC-32-HS-12V)

*The copper heat sink with fan is compatible with most TIMTER™ and nanoTX™ models. It includes a power supply for North American operation.*



- **Transmitter-powered Heat Sink**  
(P/N QSX-AC-32-HS-28V-SP)

*This heat sink has an integral fan, power supply, and temperature-controlled power on at +37°C. Two MDM-15 connectors and a provided pigtail cable allow the heat sink to draw power **directly** from a TIMTER™ transmitter, **eliminating the need for a separate external power supply.***

*By regulating fan speed to compensate for changes in air pressure/density under high altitude conditions, Quasonix' transmitter-powered heat sink provides thermal protection for a variety of applications.*

*The male and female heat sink connectors, along with the dual-gender cable, enable connection to any TIMTER™ transmitter. An SMA extender is included to ensure convenient RF connector access.*



## FAN-COOLED HEAT SINK SPECIFICATIONS (QSX-AC-32-HS-12V)

Characteristic	Specification
<b>Overall</b>	
Dimension	*100 mm (L) x 75.6 mm (W) x 27 mm (H) (Manufacturer's specifications in metric units)
Weight	442 grams
<b>Fan Section</b>	
Bearing System	Dual ball bearing
CFM	10.48
Connector	5.5 x 2.5 mm
Lead Wire	UL1430 #26AWG
Noise Level	51 dBA
Power	7.2 W
Rated Voltage	12 VDC
Safety Approvals (Standard)	CE, UL
Size	75 mm x 75 mm x 15 mm
Speed	5500 rpm
Static Pressure	17.58 max mmH2O
<b>Heat Sink Section</b>	
Fin Pitch	1.5 mm
Fin Thickness	~0.45 mm
Material	Copper C1020
<b>Power Supply Section</b>	
Current Output	1A
Polarization	Positive Center
Power Output	12 W
Voltage Input	100V—240V ~50/60Hz
Voltage Output	+12 VDC

\*3.94" (L) x 2.97" (W) x 1.1" (H)



Specifications subject to change without notice



## TRANSMITTER-POWERED HEAT SINK SPECIFICATIONS (QSX-AC-32-HS-28V-SP)

Characteristic	Specification
<i>Overall</i>	
Current Draw	5 mA (idle); 140 mA (running)
Dimension	3.176" (L) x 2.000" (W) x 1.323" (H)
Voltage Input	28 V
Voltage Range	21 V — 34 V
Weight	156 grams
<i>Fan Section</i>	
Bearing System	Dual ball bearing
CFM	14.83
Material	Plastic (UL 94V-0)
Noise Level	41.5 dBA
Regulated Speed	11000 rpm
Static Pressure	15.26 max mmH2O
<i>Heat Sink Section</i>	
Fin Pitch	0.235"
Fin Thickness	0.05"
Material	6061-T6
Fin Height	0.940"
Number of Fins	9

Connection to transmitter with a female MDM-15



Connection to transmitter with a male MDM-15

**ATTENTION:** Do not operate the transmitter without a proper heat sink. Failure to do so may lead to permanent damage to the unit and will void the warranty. Overheating can occur in a matter of seconds when a transmitter is not properly heat-sinked. In absolutely no case should any type of stickers or labels be applied to the bottom surface of the transmitter.

## SAMPLE HEAT SINK APPLICATIONS

Fan-Cooled Heat Sink (P/N: QSX-AC-32-HS-12V)  
shown with mounted nanoTX™ and standard TIMTER™ transmitters



Transmitter-powered Heat Sink (P/N: QSX-AC-32-HS-28V-SP)  
shown with mounted TIMTER™ 04AB package and TIMTER™ 07AE package  
MDM-15 connector enables use with either gender on transmitters

