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Possible Thermal Solutions for the ADL855PC



1. ADLTS2HSS & FAN



2. ADLTS2PIPE



3. ADL855PC-SPREADER2



4. ADL855PC-SPREADER3

Item	Solution	Height from Top of PCB	Ambient Temperature Range
ADL855PC-600C	1. ADLTS2HSS & FAN	28.5mm	-20°C to 75°C, with fan or without Max 37°
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 75°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C
ADL855PC-373C	1. ADLTS2HSS & FAN	28.5mm	-20°C to 75°C, with fan or without Max 26°
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 75°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C
ADL855PC-738	1. ADLTS2HSS & FAN	28.5mm	-20°C to 60°C, with fan ONLY
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 60°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C
ADL855PC-370	1. ADLTS2HSS & FAN	28.5mm	-20°C to 60°C, with fan ONLY
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 60°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C
ADL855PC-745	1. ADLTS2HSS & FAN	28.5mm	-20°C to 70°C, with fan only
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 70°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C
ADL855PC-140	1. ADLTS2HSS & FAN	28.5mm	-20°C to 70°C, with fan only
	2. ADLTS2PIPE	15mm to 15.5mm	-20°C to 60°C, with prescreening -40°C to +85°C
	3. ADL855PC-SPREADER2	15.24mm	-20°C to 75°C, with prescreening -40°C to +85°C
	4. ADL855PC-SPREADER3	25.4mm	-20°C to 75°C, with prescreening -40°C to +85°C

Note

All above temperature ratings have been tested while CPU was at full Intel load. It is possible to exceed these ambient temperatures, dependant upon the applications CPU utilization. In the final installation, the thermal path must provide sufficient cooling to keep the CPU (T-junction) below the 100°C (max) or protective shutdown will occur. Pentium M CPU's can leverage advanced speed step to help control thermal overload. Both types of CPU's (Pentium M and Celeron M) will "duty cycle" the CPU clock at the higher end at the temperature spectrum before protective shutdown occurs.

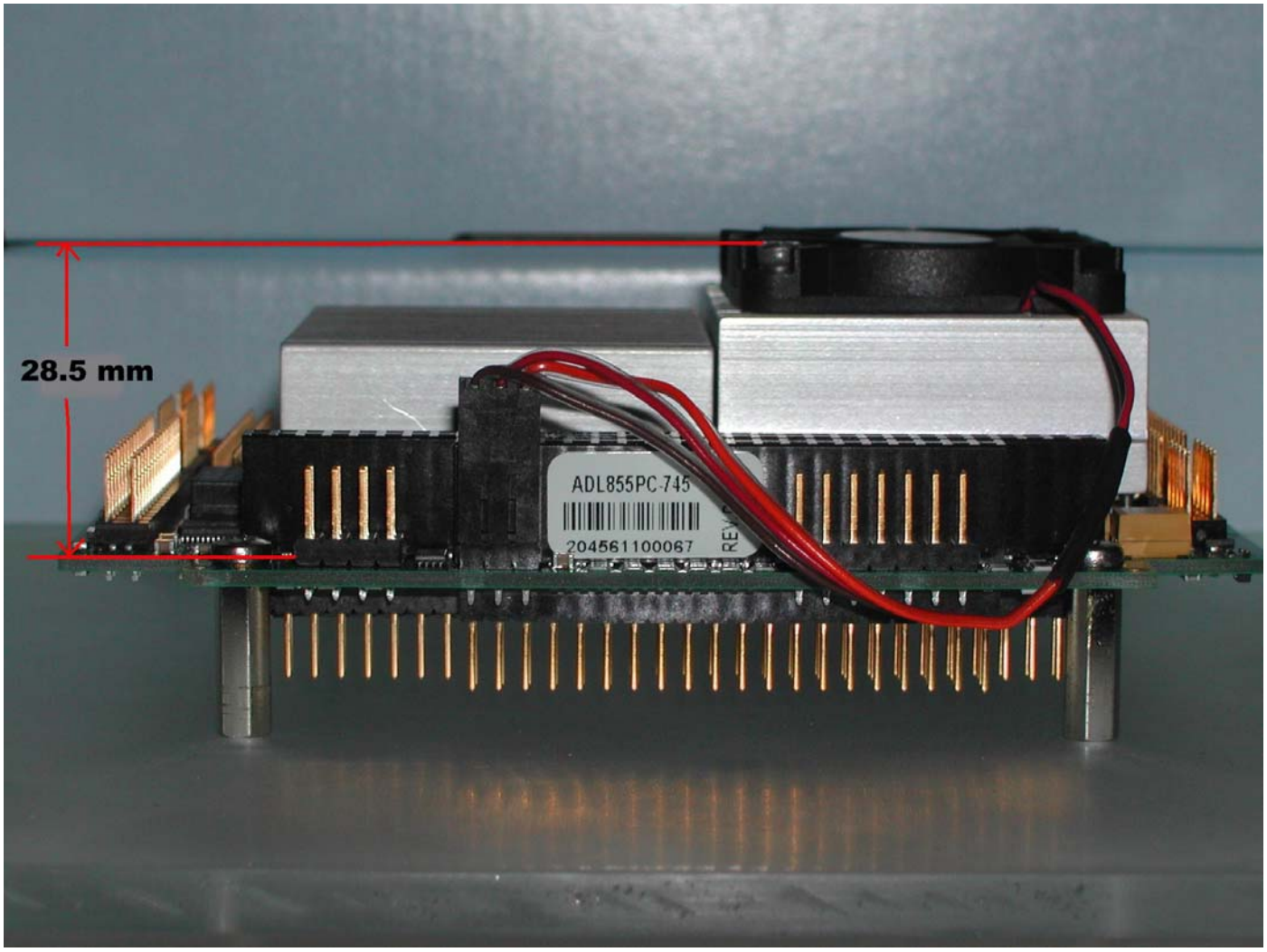
Warranty for -40°C to +85°C with prescreening only.

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Overall Height of ADL855PC with ADLTS2HSS



The two piece Heat Sink Solution was developed to offer a low cost high performance solution to customers that have the physical envelope for this implementation.

Ordering Information

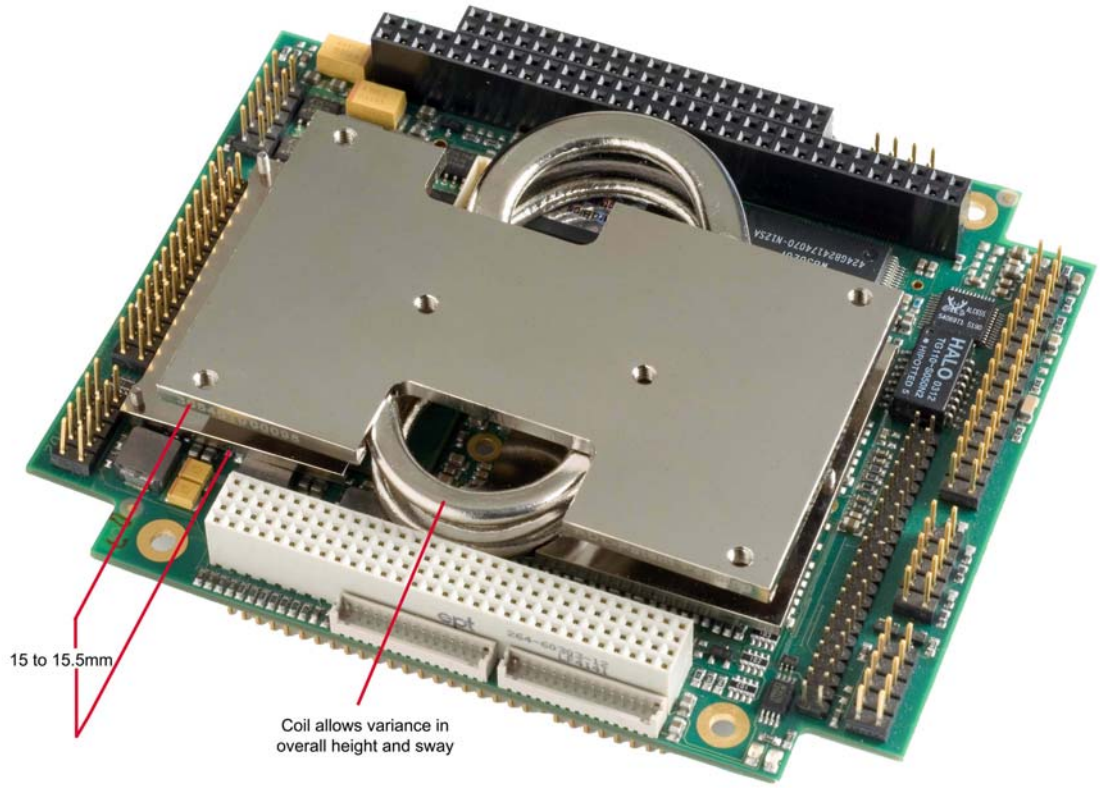
Item Codes	Part#	Description
ADLTS2HSS	292054	ADLTS2HSS 2 piece Heat Sink Set
ADLTS2HSS-FAN	292057	Fan for ADLTS2HSS

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Heat Pipe - ADLTS2PIPE



The ADL Heat Pipe Solution offers a very unique solution for customers who are concerned with overall weight of the thermal solution. It also provides the advantage of a very fast thermal response. The floating tip plate will accommodate small variances in surface mounting.

Ordering Information

Item Codes	Part#	Description
ADLTS2PIPE	293054	Chassis-mounted performance heat pipes — US Patent No. 7239514

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.6” Heat Spreader - ADL855PC-SPREADER2



Ordering Information

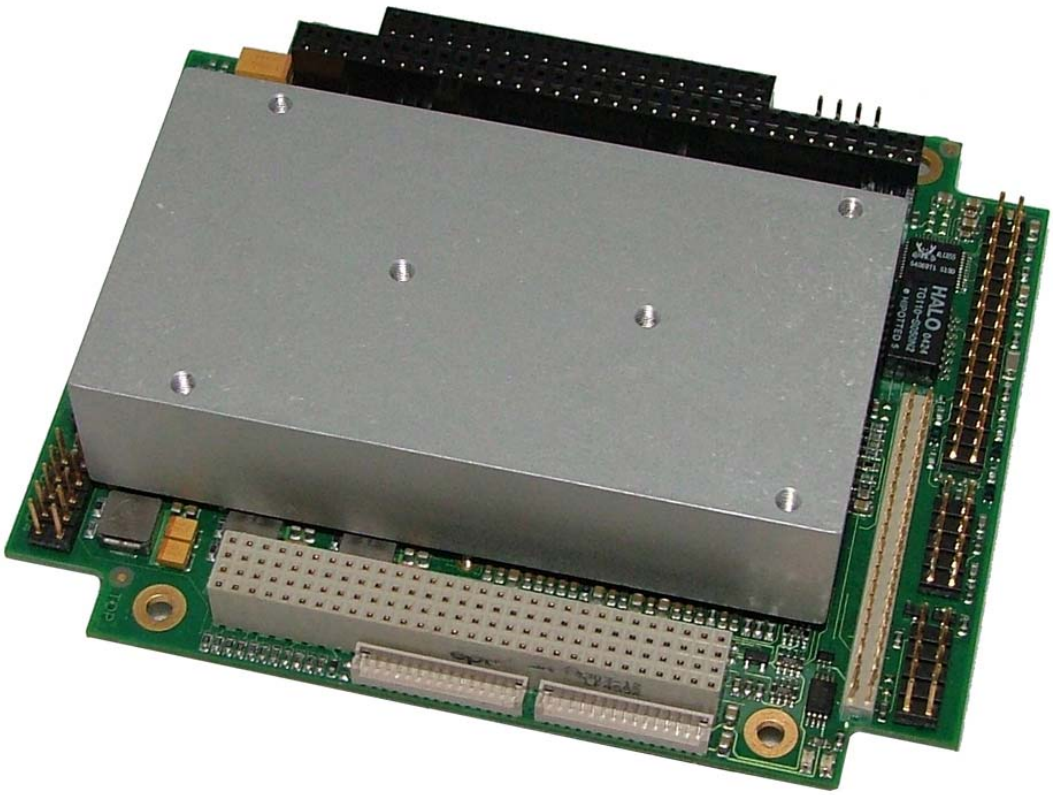
Item Codes	Part#	Description
ADL855PC-SPREADER2	293152	.6” Heat Spreader

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1” Heat Spreader - ADL855PC-SPREADER3



Ordering Information

Item Codes	Part#	Description
ADL855PC-SPREADER3	293153	1” Heat Spreader

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