CPU Socket: Intel Socket 2011 Narrow ILM (115X & 1700)

Solution: 2U Server & Up (Active)

Dimensions: 89.0 x 89.0 x 67.0 mm

TDP: 145W

Material: Cu Base + Al Fin + 4 heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel Socket 2011 Square

ILM

Solution: 2U Server & Up (Active)

Dimensions: 91.0 x 90.0 x 67.3 mm

TDP: 120W

Material: Cu Base + Al Fin +

60x25mm Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel Socket 2011 Square

ILM

Solution: 2U Server & Up (Active)

Dimensions: 89.5 x 89.5 x 69.0 mm

TDP: 145W

Material: Al Base + Al Fin + Heatpipes

+ 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel Socket 2011

Narrow ILM

Solution: 2U Server & Up (Active)

Dimensions: 103.75 x 76.7 x 69.0 mm

TDP: 145W

Material: Al Base + Al Fin + 4 heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 4677 Narrow

ILM (Whitley)

Solution: 2U Server & Up (Active)

Dimensions: 118.0 x 82.0 x 66.0 mm

TDP: 400W

Material: Al Base + Al Fin + 6 Heatpipes +

60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12UA	12.0	7.0	2.5	18000	Two Ball	68.2	57.7	60.75	PWM Control	2510-4Pin

CPU Socket: Intel Socket 115X & 2011 Square & 2011 Narrow

Solution: 3U Server & Up (Active)

Dimensions: 109.95 x 95 x 127 mm

TDP: 150W

Material: Al Base + Cu Block + Al Fin +

5 Heatpipes + 92x25mm Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2 O	dBA	PWN Function	Connector Housing
TD9225B12HA	12.0	7.0	0.35	3300	Two Ball	53.42	4.55	34.2	PWM Control	2510-4Pin

CPU Socket: Intel Socket 115X ILM

Solution: 2U Server & Up (Active)

Dimensions: 96.0 x 88.0 x 67.0 mm

TDP: 220W

Material: Al Base + Cu Block + Al Fin + 4

Heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12HA	12.0	7.0	1.0	9000	Two Ball	50.3	25.75	49.60	PWM Control	2510-4Pin

CPU Socket: Intel Socket 115X ILM

Solution: 2U Server & Up (Active)

Dimensions: 91.0 x 90.0 x 67.3 mm

TDP: 95W

Material: Cu Base + Al Fin + 60x25

mm Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 3647

Narrow ILM

Solution: 4U Server & Up (Active)

Dimensions: 108.0 x 92.5 x 126.3 mm

TDP: 300W

Material: Al Base + Cu Block + Al Fin +

6 Heatpipes + 92x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2 O	dBA	PWN Function	Connector Housing
TD9225B12UA	12.0	7.0	1.0	4700	Two Ball	86.29	11.17	36.6	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 3647

Square ILM

Solution: 2U Server & Up (Active)

Dimensions: 91.0 x 88.0 x 64.0 mm

TDP: 205W

Material: Al Base + Cu Block + Al Fin +

4 Heatpipes + 60x25m Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025 <mark>B12MA</mark>	12.0	7.0	0.45	6800	Two Ball	41.4	14.74	47.67	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 3647

Narrow ILM

Solution: 2U Server & Up (Active)

Dimensions: 108.0 x 78.0 x 64.0 mm

TDP: 240W

Material: Al Base + Cu Block + Al Fin +

4 Heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12HA	12.0	7.0	1.0	9000	Two Ball	50.3	25.75	49.60	PWM Control	2510-4Pin

CPU Socket: AMD SP3 ILM

Solution: 3U Server & Up (Active)

Dimensions: 120.0 x 95.0 x 126.3 mm

TDP: 280W

Material: Al Base + Cu Block + Al Fin +

6 Heatpipes + 92x25mm Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD9225B12UA	12.0	7.0	1.0	4700	Two Ball	86.2 9	11.17	36.6	PWM Control	2510-4Pin

CPU Socket: AMD SP5 ILM

Solution: 2U Server & Up (Active)

Dimensions: 118.0 x 92.4 x 64.5 mm

TDP: 400W

Material: Al Base + Cu Block + Al Fin +

6 Heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12MA	12.0	7.0	0.45	18000	Two Ball	68.2	57.7	60.75	PWM Control	2510-4Pin

CPU Socket: Intel Socket 1700 ILM

(Socket LGA115X)

Solution: 1U Server & Up (Active)

Dimensions: 90.0 x 90.0 x 29.5 mm

TDP: 220W

Material: VC + Cu Fin + 80x15mm

Blower

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD8015 <mark>B12MB</mark>	12.0	7.0	1.20	6000	Two Ball	19.0 9	54.5	55.8	PWM Control	2510-4Pin

CPU Socket: Intel Socket 1700 ILM

Solution: 2U Server & Up (Active)

Dimensions: 96.0 x 88.0 x 67.0 mm

TDP: 220W

Material: Al Base + Cu Block + Al Fin +

4 Heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12HA	12.0	7.0	1.0	9000	Two Ball	50.3	25.75	49.60	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 4189

Narrow ILM (Whitley)

Solution: 1U Server & Up (Active

Dimensions: 113.0 x 80.0 x 27.8 mm

TDP: 250W

Material: VC + Cu Fin + 8015 Blower

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2 O	dBA	PWN Function	Connector Housing
TD8015 <mark>B12MB</mark>	12.0	7.0	1.20	6000	Two Ball	19.09	54.5	55.8	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 4189

Narrow ILM (Whitley)

Solution: 2U Server & Up (Active)

Dimensions: 113.0 x 78.0 x 64.0 mm

TDP: 240W

Material: Al Base + Cu Block + Al Fin +

4 Heatpipes + 60x25mm Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12HA	12.0	7.0	1.0	9000	Two Ball	50.3	25.75	49.60	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 4189

Narrow ILM (Whitley)

Solution: 4U Server & Up (Active)

Dimensions: 113.0 x 95.0 x 126.3 mm

TDP: 330W

Material: Al Base + Cu Block + Cu Fin

+ 4 Heatpipes + 92x25 Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2 O	dBA	PWN Function	Connector Housing
TD9225B12UA	12.0	7.0	1.0	4700	Two Ball	86.29	11.17	36.6	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 4189

Narrow ILM (Whitley)

Solution: 2U Server & Up (Active)

Dimensions: 113.0 x 82.0 x 66.0 mm

TDP: 400W

Material: Al Base + Al Fin + 6 Heatpipes + 60x25m Fan

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD6025B12UA	12.0	7.0	2.5	18000	Two Ball	68.2	57.7	60.75	PWM Control	2510-4Pin

CPU Socket: AMD AM4&AM5 ILM

Solution: 1U Server & Up

Dimensions: 106.0 x 80.0 x 27.8 mm

TDP: 130W

Material: Cu Skived Fin + 8015

Blower

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV

Environmental Level: RoHS 2.0



Fan Part No.	Rated Voltage (VDC)	Starting Voltage (VDC)	Rated Current (A)	RPM (±10%)	Bearing	CFM	mmH2O	dBA	PWN Function	Connector Housing
TD8015 <mark>B12MB</mark>	12.0	7.0	1.20	6000	Two Ball	19.0 9	54.5	55.8	PWM Control	2510-4Pin

CPU Socket: Intel FCLGA 3647

Narrow ILM (Purley)

Solution: 2U Server & Up (Passive)

Dimensions: 108.0 x 78.0 x 64.0 mm

TDP: 250W

Material: Al Base + Cu Block + Al Fin +

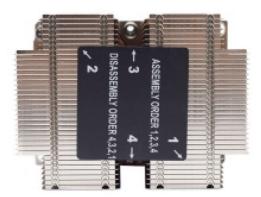
4 HP

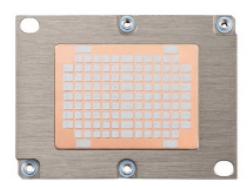
TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV







CPU Socket: Intel FCLGA 4189 ILM

(Whitley)

Solution: 1U Server & Up (Passive)

Dimensions: 108.0 x 78.0 x 24.6 mm

TDP: 205W

Material: Al Base + Cu Block + Al Fin +

4 HP

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV







CPU Socket: Intel FCLGA 4189 ILM

(Whitley)

Solution: 2U Server & Up (Passive)

Dimensions: 108.0 x 78.0 x 64.0 mm

TDP: 300W

Material: Al Base + Cu Block + Al Fin +

5 HP

TIM: ShinEtsu X23-7783D Pre-

Applied

Safety Approval: UL & TUV







CPU Socket: Intel LGA115X & 1700 &

2011/AMD AM4&AMD5

Solution: 2U Server & Up (Active)

Dimensions: 89.5 x 89.5 x 67.0mm

TDP: 165W@6800RPM/

240W@9000RPM

Material: Al Base + Al Fin + 5 HP

+6025 Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV



CPU Socket: Intel LGA115X & 1700 &

2011/AMD AM4&AMD5

Solution: 4U Server & Up (Active)

Dimensions: 113.5 x 92.5 x 126.0mm

TDP: 240W@3300RPM/

300W@4700RPM / 350W@6000RPM

Material: Al Base + Al Fin + 6 HP + 9225

Fan

TIM: ShinEtsu X23-7762 Pre-Applied

Safety Approval: UL & TUV



CPU Socket: Intel FCLGA 4189 ILM

(Whitley)

Solution: 2U Server & Up (Active)

Dimensions: 113.0 x 82.0 x 66.0mm

TDP: 280W@9000RPM/

350W@13000RPM / 400W@18000RPM

Material: Al Base + Al Fin + 6 HP + 6025

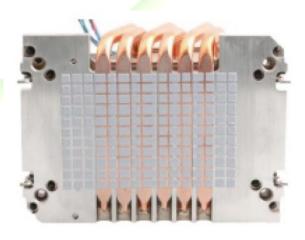
Fan

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV







CPU Socket: Intel FCLGA 4677 ILM (Eagle

Stream)

Solution: 2U Server & Up (Passive)

Dimensions: 118.0 x 78.0 x 64.0 mm

TDP: 300W

Material: Al Base + Al Fin + 5 HP

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV







CPU Socket: Intel FCLGA 4677 ILM (Eagle

Stream)

Solution: 2U Server & Up (Active)

Dimensions: 118.0 x 82.0 x 66.0 mm

TDP: 280W@9000RPM/

350W@13000RPM / 400W@18000RPM

Material: Al Base + Al Fin + 6 HP + 6025

Fan

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV







CPU Socket: Intel FCLGA 4677 ILM (Eagle

Stream)

Solution: 4U Server & Up (Active)

Dimensions: 118.0 x 95.0 x 126.3mm

TDP: 300W@4700RPM /

350W@6000RPM

Material: Al Base + Al Fin + 6 HP + 9225

Fan

TIM: ShinEtsu X23-7783D Pre-Applied

Safety Approval: UL & TUV







CPU Socket: AMD SP3 ILM

Solution: 2U Server & Up (Passive)

Dimensions: 120.0 x 80.0 x 63.5mm

TDP: 250W

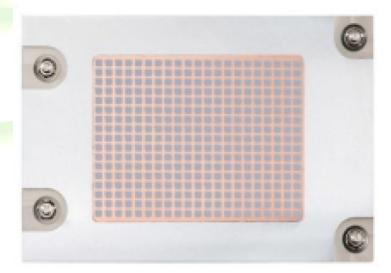
Material: Al Base + Cu Block + Al Fin + 4 HP

TIM: Dow Corning TC-5218 Pre-Applied

Safety Approval: UL & TUV







CPU Socket: AMD SP3 ILM

Solution: 3U Server & Up (Passive)

Dimensions: 120.0 x 95.0 x 126.3mm

TDP: 240W@3300RPM/

300W@4700RPM / 350W@6000RPM

Material: Al Base + Cu Block + Al Fin + 6 HP

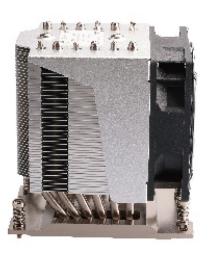
+ 9225 Fan

TIM: Dow Corning TC-5218 Pre-Applied

Safety Approval: UL & TUV







CPU Socket: AMD SP5

Solution: 2U Server & Up (Active)

Dimensions: 118.0 x 92.4 x 66.0 mm

TDP: 300W@9000RPM /

350@13000RPM / 400W@18000RPM

Material: Al Base + Cu Block + Al Fin + 6 HP

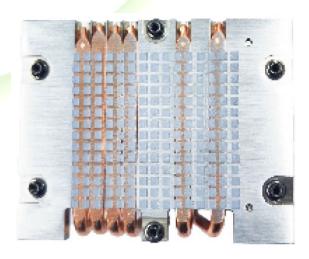
+ 9225 Fan

TIM: Dow Corning TC-5218 Pre-Applied

Safety Approval: UL & TUV







Vapor Chambers



Heatpipes

