

# *CCI Standard Server CPU Thermal Solution*

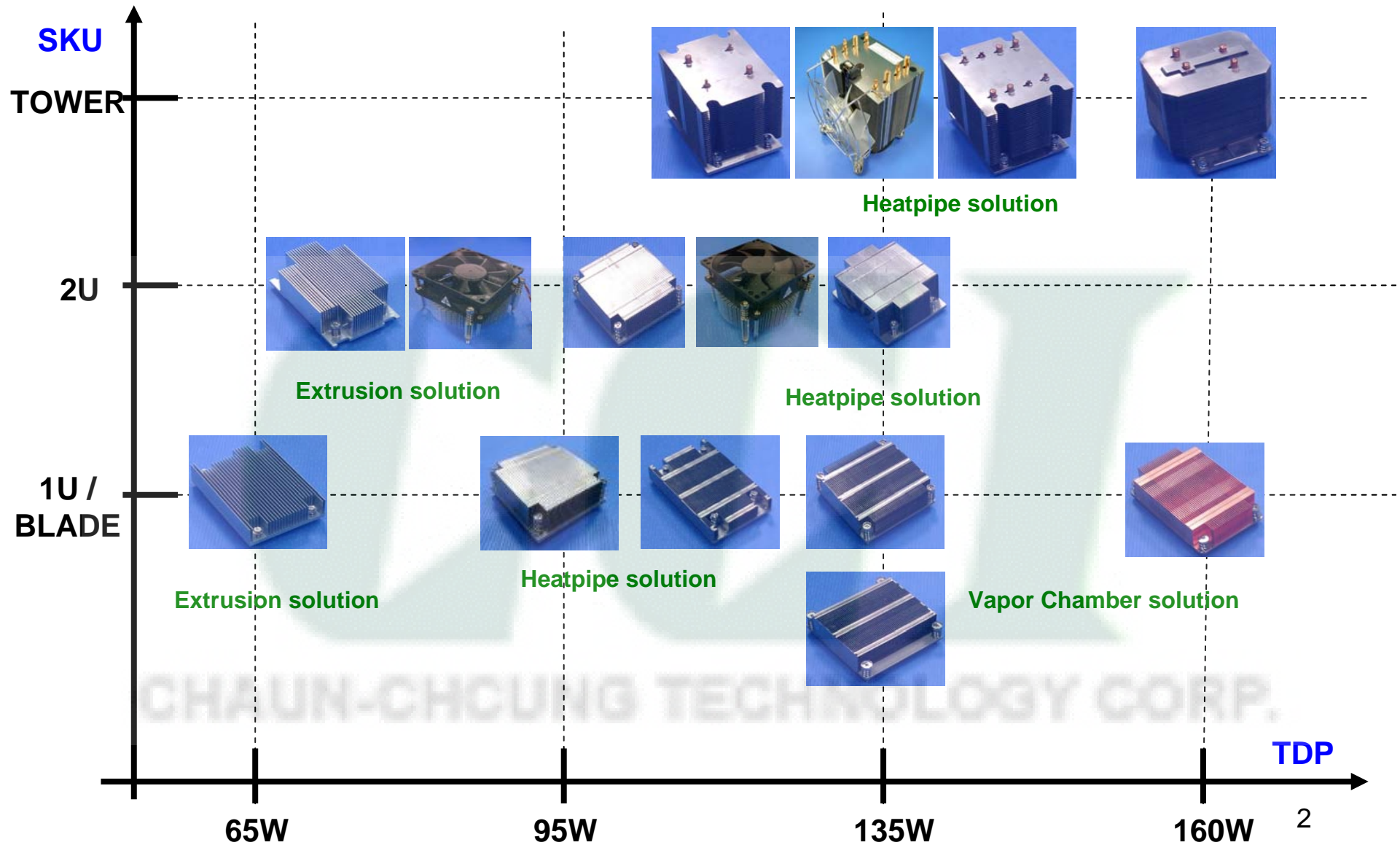


Prepared by : CCI PDD

Rev: A04

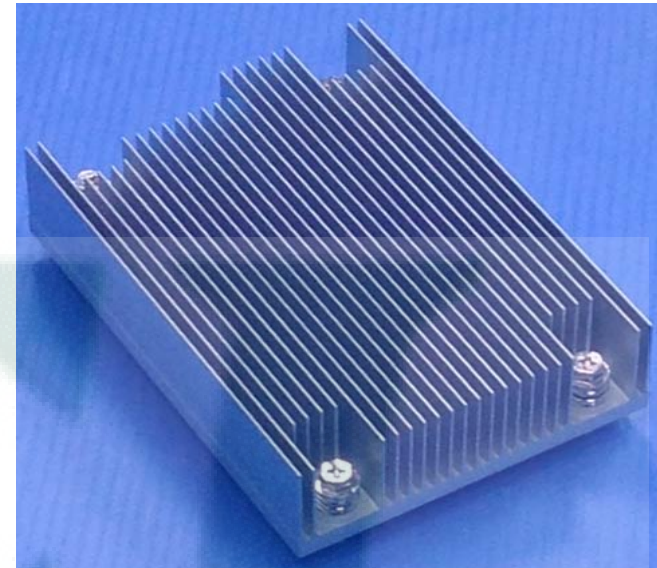
Date: March. 21. 2014

# CPU Heat Sinks



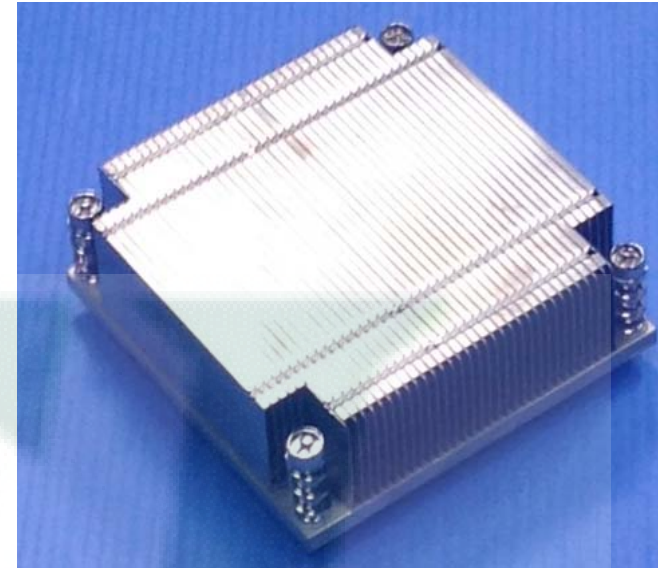
## Server 1U CPU heatsink – 65W Passive

- CCI part number: 00Z84570101
- Heatsink dimension: 84 x 106 x 25.5 mm  
-- Extrusion
- Total weight: 229 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- Produced location: DG



## Server 1U CPU heatsink – 105W Passive

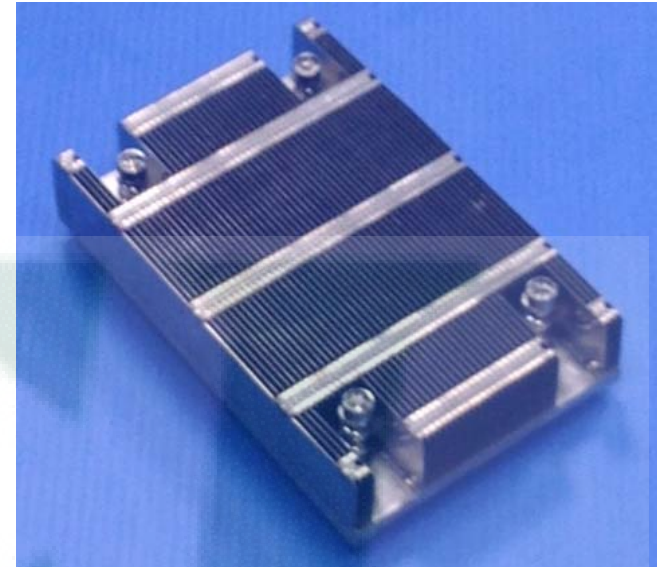
- CCI part number: 0013309101
- Heatsink dimension: 90 x 89 x 30 mm
  - Fin: Al 1050
  - Base: ADC 6
  - Block: Cu 1100
  - Heat pipe:  $\Phi$  6\*2pcs
- Total weight: 219 g
- Screw type: M4
- Socket R ( Hole pattern: 80 x 80 mm)
- System air flow rate: 10 CFM
- Thermal resistance: 0.290 deg C/W
- Produced location: KS





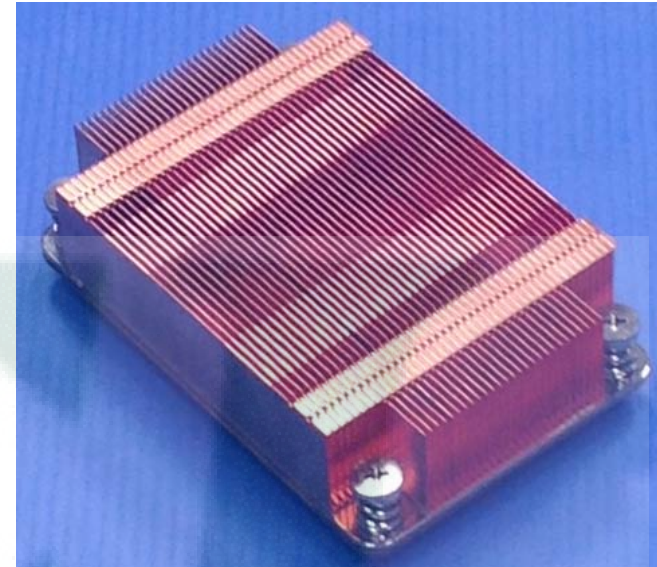
## Server 1U CPU heatsink – 120W Passive

- CCI part number: 0013075101
- Heatsink dimension: 128 x 82 x 22 mm
  - Fin: Al 1050
  - Base: ADC 6
  - Block: Cu 1100
  - Heat pipe:  $\Phi$  6 \*2pcs
- Total weight: 270 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 10 CFM
- Thermal resistance: 0.297 deg C/W
- Produced location: KS



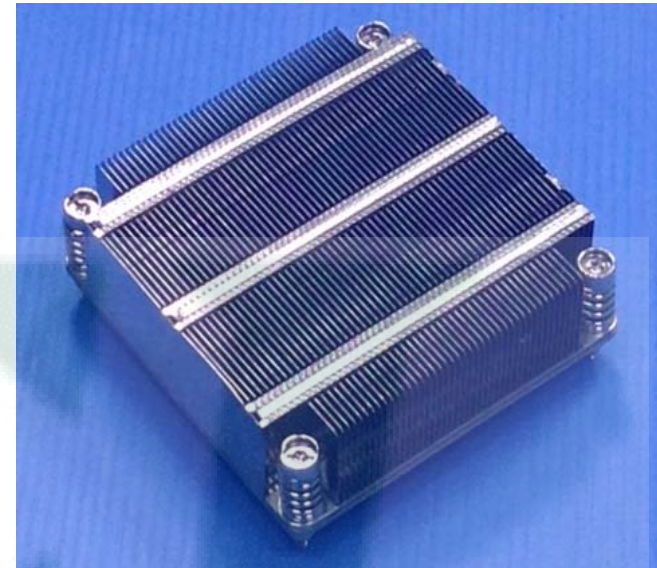
## Server 1U CPU heatsink – 160W Passive

- CCI part number: 0013361101
- Heatsink dimension: 70 x 106 x 26.5 mm
  - Fin: Cu 1100
  - Base: Vapor chamber
- Total weight: 420 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 30 CFM
- Thermal resistance: 0.208 deg C/W
- Produced location: KS



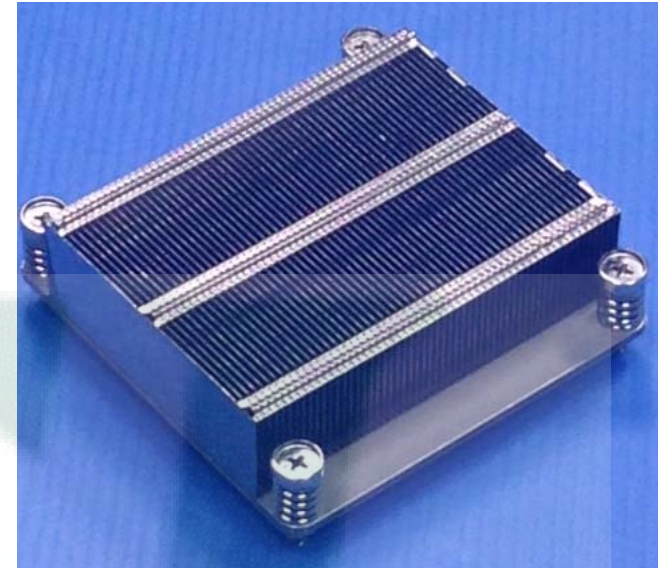
## Server 1U/Blade CPU heatsink – 130W Passive

- CCI part number: 0012149101
- Heatsink dimension: 90 x 90 x 26 mm
  - Fin: Cu 1100
  - Base: Vapor chamber
- Total weight: 364 g
- Screw type: M4
- Socket R ( Hole pattern: 80 x 80 mm)
- System air flow rate: 13 CFM
- Thermal resistance: 0.228 deg C/W
- Produced location: KS



## Server 1U CPU heatsink – 130W Passive

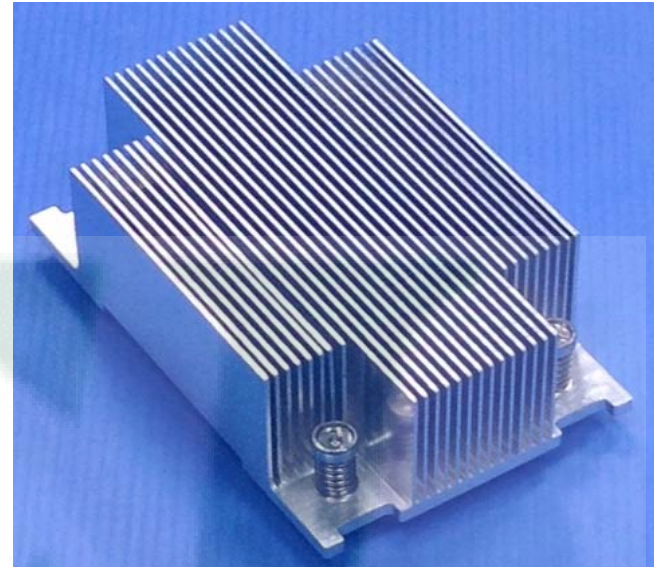
- CCI part number: 0011149101
- Heatsink dimension: 90 x 90 x 26 mm
  - Fin: Cu 1100
  - Base: Vapor chamber
- Total weight: 319 g
- Screw type: M4
- Socket R ( Hole pattern: 80 x 80 mm)
- System air flow rate: 16 CFM
- Thermal resistance: 0.224 deg C/W
- Produced location: KS





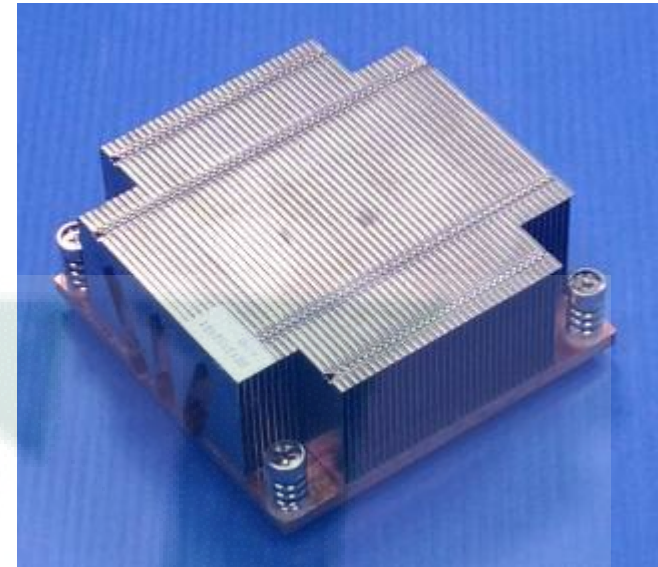
## Server 2U CPU heatsink – 80W Passive

- CCI part number: 0022014331
- Heatsink dimension: 123 x 80 x 41.5 mm  
-- Extrusion
- Total weight: 353 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 10 CFM
- Thermal resistance: 0.385 deg C/W
- Produced location: KS



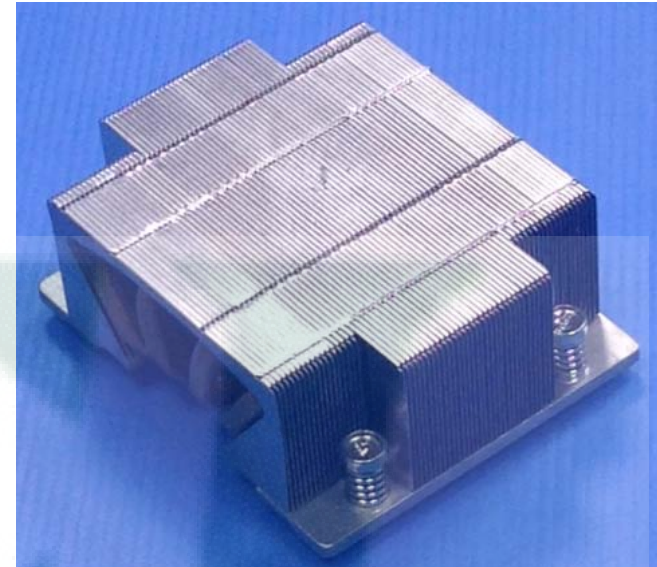
## Server 1U/2U CPU heatsink – 115W Passive

- CCI part number: 0013153101
- Heatsink dimension: 90 x 89 x 48 mm
  - Fin: Al 1050
  - Base: Cu 1100
  - Heatpipe:  $\Phi$  6 \*3 pcs
- Total weight: 452 g
- Screw type: M4
- Socket R ( Hole pattern: 80 x 80 mm)
- System air flow rate: 20 CFM
- Thermal resistance: 0.180 deg C/W
- Produced location: KS



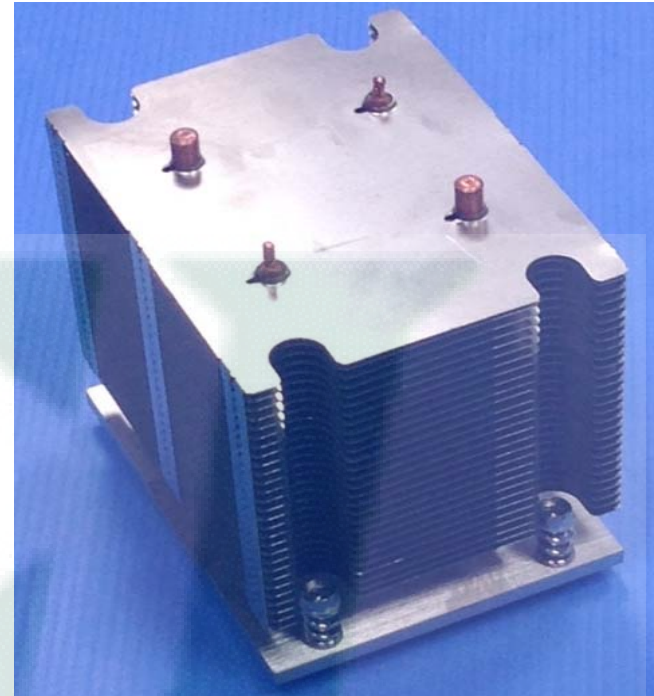
## Server 2U CPU heatsink – 135W Passive

- CCI part number: 0013137101
- Heatsink dimension: 106 x 70 x 63.5 mm
  - Fin: Al 1050
  - Base: ADC6
  - Block: Cu 1100
  - Heatpipe:  $\Phi$  6 \*4 pcs
- Total weight: 393 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 12 CFM
- Thermal resistance: 0.254 deg C/W
- Produced location: KS



## Server Tower CPU heatsink – 120W Passive

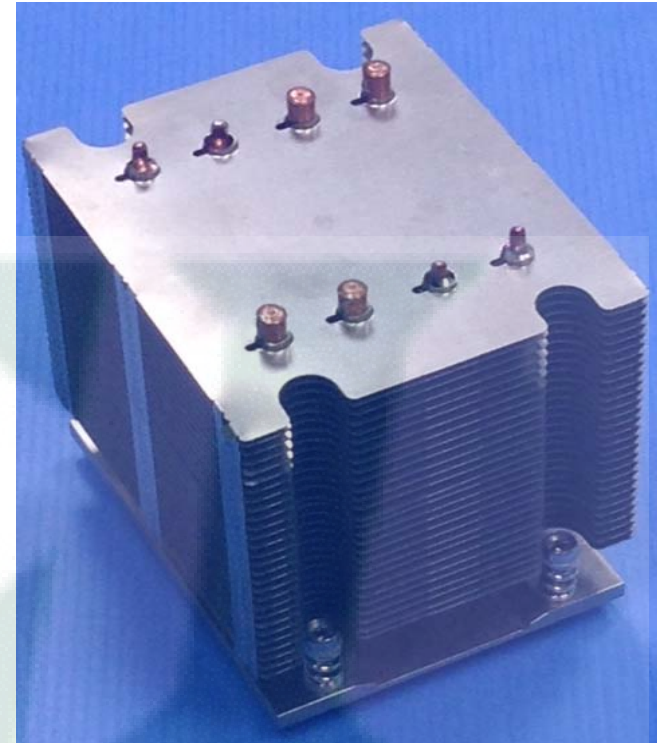
- CCI part number: 0013250101
- Heatsink dimension: 109.5 x 84 x 105 mm
  - Fin: Al 1050
  - Base: Al 6063-T5
  - Heatpipe:  $\Phi$  6 \*2 pcs
- Total weight: 348 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 15 CFM
- Thermal resistance: 0.270 deg C/W
- Produced location: KS





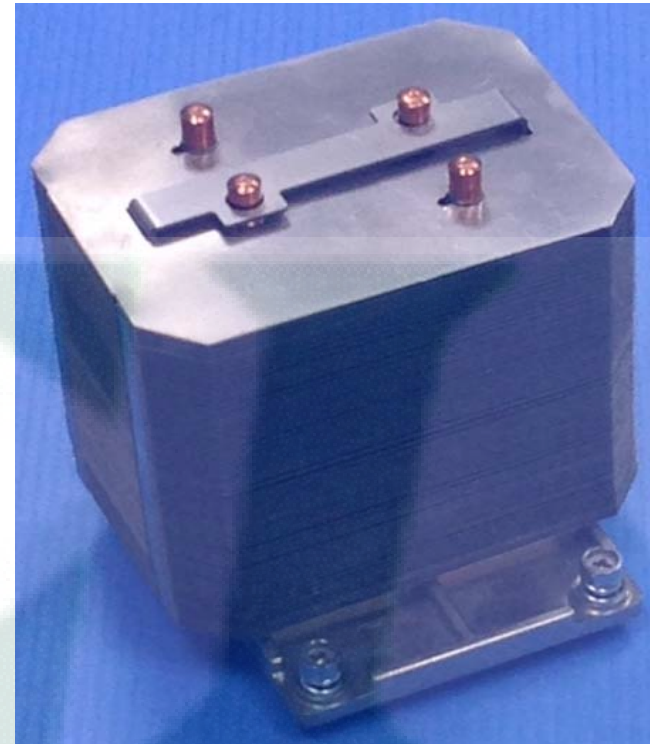
## Server Tower CPU heatsink – 145W Passive

- CCI part number: 0013251101
- Heatsink dimension: 109.5 x 84 x 105 mm
  - Fin: Al 1050
  - Base: Al 6063-T5
  - Block: Cu 1100
  - Heatpipe:  $\Phi$  6 \*4 pcs
- Total weight: 421 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 15 CFM
- Thermal resistance: 0.240 deg C/W
- Produced location: KS



## Server Tower CPU heatsink – 155W Passive

- CCI part number: 00Z89400101
- Heatsink dimension: 105.5 x 95 x 105 mm
  - Fin: Al 1050
  - Base: ADC 12
  - Block: Cu 1100
  - Heatpipe:  $\Phi$  6 \*4 pcs
- Total weight: 587 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 94 x 56 mm)
- System air flow rate: 33.5 CFM
- Thermal resistance: 0.171 deg C/W
- Produced location: DG



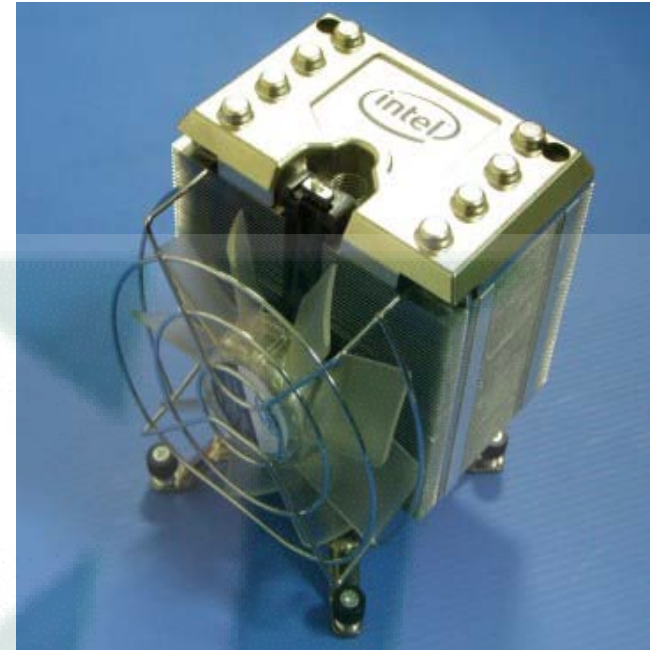
## Server Tower CPU heatsink – 130W Active

- CCI part number: 00Z83190201
- Heatsink dimension: 100 x 97 x 129.41 mm
  - Fin: Al 1100
  - Base: Cu 1100
  - Heatpipe:  $\Phi$  6 \*4 pcs
  - Fan speed:
    - In quiet mode: 1800 rpm
    - In performance mode: 2600 rpm
    - Max. air flow: 40 CFM
    - In quiet mode: 4.5 B(A)
    - In performance mode: 5.5 B(A)
- Total weight: 620 g
- Screw type: M4
- Socket R Narrow ( Hole pattern: 80 x 80 mm)
- Thermal resistance: 0.173 deg C/W
- Produced location: DG



## Server Tower CPU heatsink – 130W Active

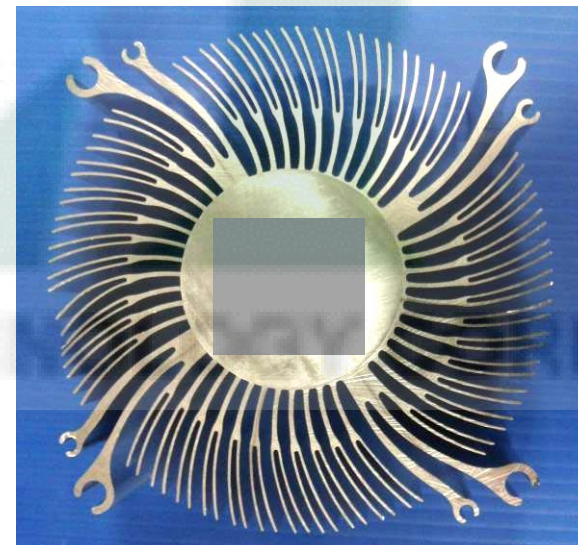
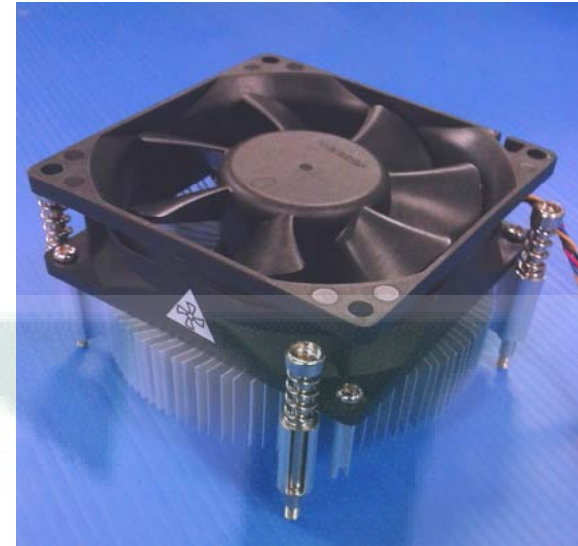
- CCI part number: 00C99400101
- Heatsink dimension: 100 x 97 x 129.41 mm
  - Fin: Al 1100
  - Base: Cu 1100
  - Heatpipe:  $\Phi$  6 \*4 pcs
  - Fan speed:
    - In quiet mode: 1800 rpm
    - In performance mode: 2600 rpm
    - Max. air flow: 40 CFM
    - In quiet mode: 4.5 B(A)
    - In performance mode: 5.5 B(A)
- Total weight: 636.7 g
- Screw type: M3
- Socket B Narrow ( Hole pattern: 80 x 80 mm)
- Thermal resistance: 0.173 deg C/W
- Produced location: DG





## Desktop CPU heat sink – 65W/ 95W Active

- CCI part number: 0011208101 / 0011207101
- Heat sink height: 50/ 62.9 (mm)
  - -- Sunflower: Al6063 –  $\Phi 90$  x 24.6/ L 37.5 (mm)
  - -- Weight : 160 / 226 (g)
- Fan Feature : 80 x 80 x 25 mm (with PWM)
  - -- Max speed : 4500 rpm
  - -- Max. air flow: 58.7 CFM
  - -- Acoustic noise: 44 dB-A
- Total Weight: 270/ 336 g
- Screw Type: M3
- Socket H (Hole pattern: 75 x 75 mm)
- TIM: Dow Corning TC-5026
- Thermal Resistance: 0.3/ 0.27 ( $^{\circ}\text{C}/\text{W}$ )



## Desktop CPU heat sink – 125W Active

- CCI part number: 0012109101
- Heat sink height: 62.7 (mm)
  - Sunflower: Al6063 –  $\Phi 90 \times L 32.5$  (mm)
  - C1100 –  $\Phi 30 \times L 28$  (mm)
- -- Weight : 390 (g)
- Fan Feature : 80 x 80 x 25 mm (with PWM)
  - Max speed : 4500 rpm
  - Max. air flow: 63.28 CFM
  - Acoustic noise: 46.5 dB-A
- Total Weight: 469 g
- Screw Type: M3
- Socket H (Hole pattern: 75 x 75 mm)
- TIM: Dow Corning TC-5026
- Thermal Resistance: 0.25 ( $^{\circ}\text{C}/\text{W}$ )

