MTx MechaTronix
www.mechatronix-asia.com

MASTERING LED COOLING

IceLED

DRAWINGS

THERMAL DATA

IceLED Ultra Modular Active Star LED Cooler ø99mm

Features & Benefits

- **For high bays, flood lights and industrial lighting designs from 19,000 to 38,000 lumen**

- **Thermal resistance range Rth 0.25°C/W**

- **Modular design with mounting holes foreseen for a wide range of LED modules and COB's:**

  - All Zhaga Book 3 LED engines and holders
  - Bridgelux BXRA RS
  - Citizen Citiled CLU048, CLU058
  - Edison Opto EdiPower II HM30/40, Edilex SLM LED modules
  - LG Innotek LEMWM28
  - Lumileds Luxeon Gen4 1321-1825
  - Luminus Gen4/3 CXM-32, Studio Gen4 CVM-32
  - Prolight Opto PABB, PACG, PACD
  - Seoul Semiconductor Acrich MJT COB 38x38mm
  - Tridonic TALEXX module SLE Gen3 19/23mm, Gen4 19/23mm, Gen5 23mm

- **Diameter 99mm - Height 75mm**
  Other heights on request

- **High lifetime design > 60Khrs (L 10 life time @40°C)**

- **Warranty 5 years**

Zhaga
Book 3

Order Information

LED Holders

BENDER +WIRTH BJB IDEAL TE connectivity

LED Brands

bridgelux CITIZEN Micro Humantech EDISON Lit by LUMILEDS

LUMINUS LG Innotek ProLight Opto Technology Corporation SEOUL SEMICONDUCTOR
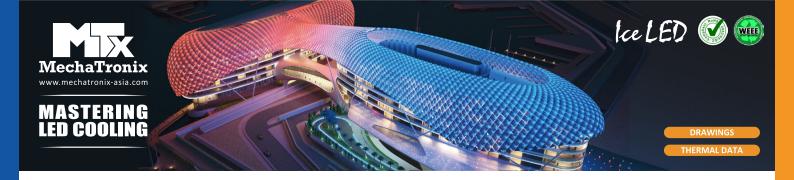
TRIDONIC

Example : IceLED Ultra

IceLED **1**

1 Ultra

IceLED Ultra **is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler**

Simple mounting with M3 x 6mm self tapping screws

Recommened screw force 6lb/in

Screws are avaliable from MechaTronix

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IceLED Ultra Modular Active Star LED Cooler ø99mm

Product Details

Model n°	IceLED Ultra
Dimension (mm)[*1]	ø99 x h75
Fan Voltage (Vdc)[*2]	12
Fan Speed (RPM)	3000
Noise @ 1m (dBA)	<39
Weight (gr)	400.39
Thermal Resistance (°C/W)[*3]	0.25
Power Pd (W)[*4]	200
Heat Sink Material	AL6063-T5

[*1] 3D files are avaliable in ParaSolid, STP and IGS on request

[*2] The fan requires a constant voltage power source of 12Vdc, 230mA, 2.76W

[*3] The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40°
and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

[*4] Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to
the estimated ambient temperature where the light fixture will be placed
Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula: $Pd = Pe \times (1 - \eta L)$
Pd - Dissipated power
Pe - Electrical power
ηL = Light effciency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.

- Mentioned models are an extraction of full product range.

- For specific mechanical adaptations please contact MechaTronix.