imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



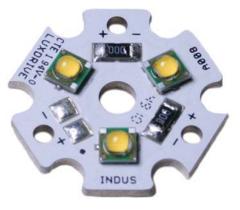


A007/A008 Indus Star[™] High-Power LED Light Module

DATA SHEET Page 1 of 6

Product Overview

An electrically isolated star capable of delivering over 700 lumens, the Indus Star[™] combines high brightness with ease of integration into fixtures and OEM applications. The LUXdrive Indus Star[™] features the CREE[®] XP-E or XP-G emitter, and an industry standard Star MCPCB. Inherent electrical isolation means thermal interface materials are not required to be electrically insulative. The Indus Star[™] is available in ANSI binned white 3000K, 4000K, and 5000K Additional colors available soon.



Features

- Electrically isolated heat sinking surface
- Pb free reflow solder connections
- ➢ RoHS Compliant
- Autoclave compliant JESD22 A-102
- ► Thin, low profile package
- ▷ Simple, clearly marked electrical connections
- Superior life span and reliability
- Energy efficient
- \triangleright Easy mounting

Typical Applications

- Solar & Landscape Lighting
- Architectural Lighting
- ➢ General Illumination
- Automotive & Marine Lighting
- ➢ Point of Purchase Lighting
- Signal & Marker Lighting
- Cabinet & Display Case Lighting
- ➢ Sign Lighting
- ► Flashlights





LEDdynamics, Inc. 802.728.4533 P 802.728.3800 F sales@LUXdrive.com www.LUXdrive.com @2011 LUX drive, A Division of LEDdynamics, Inc. www.LUX drive.com. Specifications subject to change without notice. A pril, 2011 - Rev 1.2

 * Made in the USA

LEDdynamics what a bright idea



A007/A008 Indus Star[™] High-Power LED Light Module

DATA SHEET Page 2 of 6

Luminous Flux

The Indus StarTM is available with a single or tri-emitter configuration. The color code and luminous flux figures are adapted from the CREE[®] XP-E and XP-G data sheets.

Typical Luminous Flux at LED Junction Temperature of 25 C							
Туре	Part Number	Color	CRI	Number of LEDs	Typ. Lumens at 350mA	Typ. Lumens at 700mA	
	A007-GW750-R2	5000K White	75 typ	1	118	210	
	A008-GW750-R2	5000K White	75 typ	3	354	635	
	A007-GW765-R5	6500K White	75 typ	1	144	254	
Indus XP-G	A008-GW765-R5	6500K White	75 typ	3	432	760	
Stars	A007-GW740-R2	4000K White	75 typ	1	118	210	
	A008-GW740-R2	4000K White	75 typ	3	354	635	
	A007-GW830-Q4	3000K White	80 typ	1	105	180	
	A008-GW830-Q4	3000K White	80 typ	3	315	540	
	A007-EW750-Q4	5000K White	75 typ	1	105	180	
	A008-EW750-Q4	5000K White	75 typ	3	315	540	
	A007-EW840-Q4	4000K White	75 typ	1	105	180	
	A008-EW840-Q4	4000K White	75 typ	3	315	540	
	A007-EW830-P3	3000K White	80 typ	1	75	125	
	A008-EW830-P3	3000K White	80 typ	3	225	375	
Indus XP-E	A007-ERED0-N2	Red	N/A	1	55	100	
Stars	A008-ERED0-N2	Red	N/A	3	165	295	
	A007-EGRN0-Q4	Green	N/A	1	105	180	
	A008-EGRN0-Q4	Green	N/A	3	315	540	
	A007-EBLU0-K2	Blue	N/A	1	33	60	
	A008-EBLU0-K2	Blue	N/A	3	99	180	
	A007-EROY0-16	Royal Blue	N/A	1	550mW	900mW	
	A008-EROY0-16	Royal Blue	N/A	3	1.65W	3W	
	A008-ERGB0-00	RGB	N/A	3	N/A	N/A	

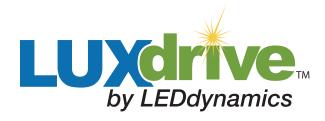
Table 1 Typical Luminous Flux at LED Junction Temperature of 25°C

Custom units available upon request. Contact LUXdrive for additional details.

See CREE® XP-E or XP-G data sheet for more details

LEDdynamics, Inc. 802.728.4533 P 802.728.3800 F sales@LUXdrive.com www.LUXdrive.com ©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com. Specifications subject to change without notice. April, 2011 - Rev 1.2

 * Made in the USA





DATA SHEET Page 3 of 6

Part Number Identification

The part number is explaned below:

A0xx-ABCDD-E

Where:

A007 designates the LUXdrive Product ID for an optically centered XP LED board A008 designates the LUXdrive Product ID for a three XP LED board

- A designates LED Type (E for XP-E, G for XP-G, C for XP-C)
- B designates LED color (W= White, RED= Red, GRN=Green, BLU=Blue, AMB=Amber, ROY=Royal Blue)
- C designates CRI value (7= 75 typ, 8=80 typ)
- DD designates Color Variant (30=3000K White, 40=4000K White, 50=5000K White, 0 for direct color variants)
- E designates Typical Luminous Flux (P3=75 Lumens, Q4=105 Lumens, R2=118 Lumens, R5=144 Lumens)

Thermal Resistance (LED junctions to bottom of MCPCB)

Color	Number of LEDs	XP-E Thermal Resistance (LED junction to bottom of MCPCB)	XP-G Thermal Resistance (LED junction to bottom of MCPCB)
White	1	11°C/W	8°C/W
White	3	5°C/W	4°C/W
Red	1	12°C/W	N/A
Red	3	5.3°C/W	N/A
Green	1	17°C/W	N/A
Green	3	7°C/W	N/A
Blue	1	11°C/W	N/A
Blue	3	5°C/W	N/A
Amber	1	12°C/W	N/A
Amber	3	5.3°C/W	N/A
RGB	3	7°C/W	N/A

Board Temperature (T_{board}).....--40° to 100°C

LED junction temperature must be kept within manufacturers limits. See CREE® XP-E, XP-G data sheets for more details

©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com. Specifications subject to change without notice. April, 2011 - Rev 1.2

*Made in the USA



LEDdynamics what a bright idea



A007/A008 Indus Star[™] High-Power LED Light Module DATA SHEET Page 4 of 6

Drivers

LUXdrive offers a line of drivers designed for use with high-power LED modules such as the Indus Star[™]. The choice of driver will depend upon the number of modules to be driven, the input voltage source, and the desired forward drive current. See the full line of LUXdrive products at <u>www.LUXdrive.com</u>

Heat Sinking and Mounting

The Indus Star[™] has six mounting points for #4 screws. It should be attached to additional heat sinking for proper thermal management. At minimum, a heat sink of a metal plate (copper or aluminum), attached using a thermal interface material (such as LUXdrive HexaTherm[™] A001),

should be used to increase the area exposed to free air. The Indus Star[™] Metal Core Printed Circuit Board has a backing plate that is electrically isolated from the emitter. It is not necessary to use an electrically insulated thermal interface material.

Table 3						
Part Number	Description	Number of Parts	Compatible With			
A001-010H	HexaTherm [™] Thermal Adhesive	10	A007 & A008			
A001-150H	HexaTherm [™] Thermal Adhesive	150	A007 & A008			

Optics

The Indus Star[™] can be fitted with many different optics from major optics manufacturers. On the A007 there are four indentations on the board, designed as registration holes for the Carclo CO-1041x series of optics. These small 10mm optics are available in multiple viewing angles and work extremely well in applications where a low profile is desired.

Table /

Table 4						
TYPE	Part Number	Description	Number of LEDs	Full Width Viewing Angle	Compatible With	
	CO-10003	Plain Tight	1	12.4°	A007	
\square	CO-10138	Frosted Narrow	1	14.3°	A007	
	CO-10003-15	Ripple Medium	1	28.8°	A007	
Indus XP-G Star Optics	CO-10139	Frosted Medium	1	21.2°	A007	
	CO-10003-25	Ripple Wide	1	41.6°	A007	
	CO-10140	Frosted Wide	1	31.1°	A007	
	CO-10003-L25	Elliptical	1	44.1° x11.9°	A007	
	CO-10192	Elliptical Orthogonal	1	12.6° x 47.1°	A007	
	CO-10734	Universal Holder	1		A007	

LEDdynamics, Inc. 802.728.4533 P 802.728.3800 F sales@LUXdrive.com www.LUXdrive.com ©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com. Specifications subject to change without notice. April, 2011 - Rev 1.2

 * Made in the USA





DATA SHEET Page 5 of 6

Table 5						
ΤΥΡΕ	Part Number	Description	Number of LEDs	Full Width Viewing Angle	Compatible with	
	CO-10193	Plain Tight	1	8.2°	A007	
	CO-10194	Frosted Narrow	1	10.4°	A007	
	CO-10208	Ripple Medium	1	28.1°	A007	
Indus XP-E Star Optics	CO-10195	Frosted Medium	1	17.9°	A007	
	CO-10209	Ripple Wide	1	43°	A007	
	CO-10196	Frosted Wide	1	31.5°	A007	
	CO-10197	Elliptical	1	47° x 8°	A007	
	CO-10198	Elliptical Orthogonal	1	8° x 47°	A007	
	CO-10736	Universal Holder	1		A007	

The A008 board has three holes, designed to hold the Carclo CO-105xx series of optics. These 20mm optics are available in multiple viewing angles 16°, 22°, 26°, 37°, and 43 x 16°.

Table 6							
ТҮРЕ	Part Number	Description	Number of LEDs	Full Width Viewing Angle	Compatible With		
Indus XP-E and XP-G Star Optics	CO-10507	Narrow Spot	3	16°	A008		
	CO-10511	Frosted Narrow	3	22°	A008		
	CO-10508	Frosted Medium	3	26°	A008		
	CO-10509	Frosted Wide	3	37°	A008		
	CO-10510	Elliptical	3	43° x 16°	A008		

LEDdynamics, Inc. 802.728.4533 P 802.728.3800 F sales@LUXdrive.com www.LUXdrive.com ©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com. Specifications subject to change without notice. April, 2011 - Rev 1.2

KC'



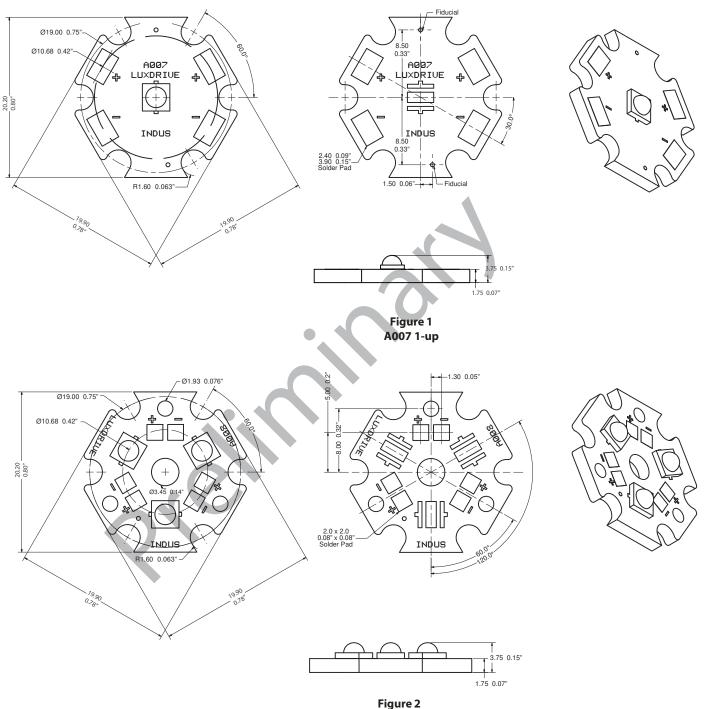


A007/A008 Indus Star[™]

High-Power LED Light Module

DATA SHEET Page 6 of 6

Physical Dimensions



A008 3-up

©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com. Specifications subject to change without notice. April, 2011 - Rev 1.2

 * Made in the USA



LEDdynamics what a bright idea