

# LED Modules

TT electronics/OPTEK Technology offers decades of experience in custom product development and manufacturing capability. Our expertise extends from die placement through finished product assembly and testing. OPTEK has the experience and the facilities to accommodate the most stringent assembly requirements.



A subsidiary of TT electronics plc

## Features ▶

### Product Design

- From concept through characterization to design

### Product Assembly

- Full manufacturing capability for a wide variety of circuit configurations

### Thermal Management

- Optek OptoTherm™, a superior thermal management substrate

## Benefits ▶

### Product Design

- On-shore design, production engineering, and product support

### Product Assembly

- Full integration of all board-level components

### Thermal Management

- Multiple thermal management solutions available, including OptoTherm™

## Applications ▶

- Architectural
- Transportation
- Flashlights
- Backlighting
- Signage



## Product Specifications ▶

Part Number	Type	Color	Color Temp. (°K)	Wavelength (nm)	Voltage (V)	Power Consumption (W)	Lens Type	Viewing Angle (°)	Luminous Flux (lm)	Luminous Intensity (Lux @ 1m)	Markets	
OPA729W	Light engines*	White	4,500-10,000	–	18	12.6	Flat	120/lambertian	480	–	CL FL TR BL SI	
OPA729WD		White	4,500-10,000	–	18	12.6	Domed	40	480	–	CL FL TR BL SI	
OPA730W		White	4,500-10,000	–	21.6	12.6	Flat	120/lambertian	576	–	CL FL TR SI	
OPA730WD		White	4,500-10,000	–	21.6	12.6	Domed	40	576	–	CL FL TR SI	
OPA731W		White	4,500-10,000	–	18	25.2	Flat	120/lambertian	960	–	CL FL TR BL SI	
OPA731WD		White	4,500-10,000	–	18	25.2	Domed	40	960	–	CL FL TR BL SI	
OPA733W		White	4,500-10,000	–	3.6	1.26	Flat	120/lambertian	48	–	CL FL TR BL SI	
OPA733WD		White	4,500-10,000	–	3.6	1.26	Domed	40	48	–	CL FL TR BL SI	
OPA739W		White	4,500-10,000	–	10.8	3.78	Flat	120/lambertian	144	–	CL FL TR BL SI	
OPA739WD		White	4,500-10,000	–	10.8	3.78	Domed	40	144	–	CL FL TR BL SI	
OPA740W-23		White	4,500-10,000	–	18	12.6	Secondary	23/lambertian	408	–	CL FL TR BL SI	
OPA741W-23		White	4,500-10,000	–	21.6	12.6	Secondary	23/lambertian	490	–	CL FL TR BL SI	
OPA742W-23		White	4,500-10,000	–	3.6	1.26	Secondary	23/lambertian	41	–	CL FL TR BL SI	
OVTLZ1LGAx**		Optimal I Star	Various	–	Various	2.6-3.4	1	Flat	135	12-60	–	CL FL TR BL SI
OVTLZ1LGAW			Cool white	7,000	–	3.4	1	Flat	135	65	–	CL FL TR BL SI
OVTLZ1LGAWD	Daylight white		5,800	–	3.4	1	Flat	135	60	–	CL FL TR BL SI	
OVTLZ1LGAWW	Warm white		3,500	–	3.4	1	Flat	135	50	–	CL FL TR BL SI	
OPAKIT100	Design kit	RGBYW	Various	Various	3.6-21.6	1.26-25.2	Various	23/40/120/lambertian	41-960	–	CL FL TR BL SI	
OVPL5W3K	Power line design kit	White	4,500-10,000	–	15	1.9	Flat	120/lambertian	250	–	CL TR BL SI	
OPA773	Power line light strip	White	4,500-10,000	–	14-16	1.9	Flat	120/lambertian	50	–	CL TR BL SI	
OPA775		White	4,500-10,000	–	14-16	1.9	Flat	120/lambertian	50	–	CL TR BL SI	
OPA776		White	4,500-10,000	–	24-26	3.8	Flat	120/lambertian	100	–	CL TR BL SI	
OV4ZRGBA	Optimal IV	RGBA	–	625/530/460/590	2.5-3.9	4	Domed	60	35/30/5/36	–	CL FL TR BL SI	
OV4Zxxx	Optimal IV–monocolor	Various	Various	625-530/460/590	8.6-13.1	4	Domed	60	29-73	–	CL FL TR BL SI	
OV4ZW		Cool white	6,000-8,000	–	12.6	4	Domed	60	165	–	CL FL TR BL SI	
OV4ZWD		Daylight white	4,750-6,000	–	12.6	4	Domed	60	162	–	CL FL TR BL SI	
OV4ZWW		Warm white	2,760-3,800	–	12.6	4	Domed	60	150	–	CL FL TR BL SI	
OVQ12S30x7**	Flexible strip	RYGBW/WW	5,500/3,300	625/590/525/470	12	1.8	Flat	120/lambertian	20-68 lux	–	CL TR SI	
OVM12F3x7**	3 LED module	RYGB/WD	5,000-7,000	625/590/525/470	12	0.3-0.5	Flat	120/lambertian	6-20 lux	–	CL TR SI	
OVM18F4x7**	4 LED module	RYGB/WD	5,000-7,000	625/590/525/470	18	0.4-0.8	Flat	120/lambertian	8-24 lux	–	CL TR SI	

### MARKETS LEGEND

CL COMMERCIAL LIGHTING FL FLASHLIGHTS TR TRANSPORTATION BL BACKLIGHTING SI SIGNAGE

\*Light engines are also available in red, yellow, blue, and green

\*\*x: R=red, B=blue, G=green, A=amber, Y=yellow



OVPL5W3K power line kit

## Total Solutions

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### Features ▶

#### Product Design

- OPTEK has vast experience in many markets with a broad variety of applications

#### Product Assembly

- OPTEK is a vertically-integrated company with the ability to accommodate a wide range of circuit configurations

#### Thermal Management

- OPTEK has OptoTherm™ substrate material

### Benefits ▶

#### Product Design

- Customers can draw on OPTEK's knowledge to find the perfect design to fit their needs

#### Product Assembly

- No aspect of product design and manufacture is beyond OPTEK's capability; this means custom manufacturing solutions from chip placement to integrated assemblies can be provided

#### Thermal Management

- OptoTherm™ accommodates the heat dissipation required by high-brightness LEDs

#### Scalable

### Applications ▶

- General illumination
- Task lighting
- Backlighting
- Signage
- Specialty lighting
- Cove lighting



Product Specifications ▶										
Type	Fixture Design (Y/N)	PCB Design (Y/N)	Testing (Y/N)	Manufacturing (Y/N)	Component #1 HB-LEDs (Y/N)	Component #2 Drivers (Y/N)	Component #3 Optics-Standard (Y/N)	Component #4 Optics-Custom (Y/N)	Component #5 Thermal Management (Y/N)	Markets
Total solution	Y	Y	Y	Y	Y	Y	Y	Y	Y	CL FL TR BL SI
<b>MARKETS LEGEND</b>					CL COMMERCIAL LIGHTING    FL FLASHLIGHTS    TR TRANSPORTATION    BL BACKLIGHTING    SI SIGNAGE					

### Featured Products ▶

OPTEK offers a variety of both standard and custom VLED products and assemblies

