



ENFIS UNO Plus Array

Smart, powerful, compact, efficient, reliable light

Features & Benefits

- Intense, high-power spot source
- Ultra-high power density
- Superior colour-mixing via dense packaging and interleaving of colours
- Enables active monitoring of light output via embedded smart array technology
- Long-life and reliable, high-performance due to excellent thermal conductivity
- Simple integration via connectorized PCB with mounting holes

Outline Specification

- 1.15cm² Aperture
- Input Power up to 50W
- Typical thermal resistance <0.8°C/W

Light Engine Integration

Enfis can eliminate the time, cost and risk of integration by offering our arrays as part of a complete light engine solution

Smart Array Technology

Light output from the Enfis arrays can be monitored and controlled via patent-pending integrated photo-detection system, enabling precise control of light output.

Thermal Management

Enfis arrays are designed to provide excellent thermal conductivity and to be integrated effectively with thermal hardware to ensure optimum performance and life

Optics

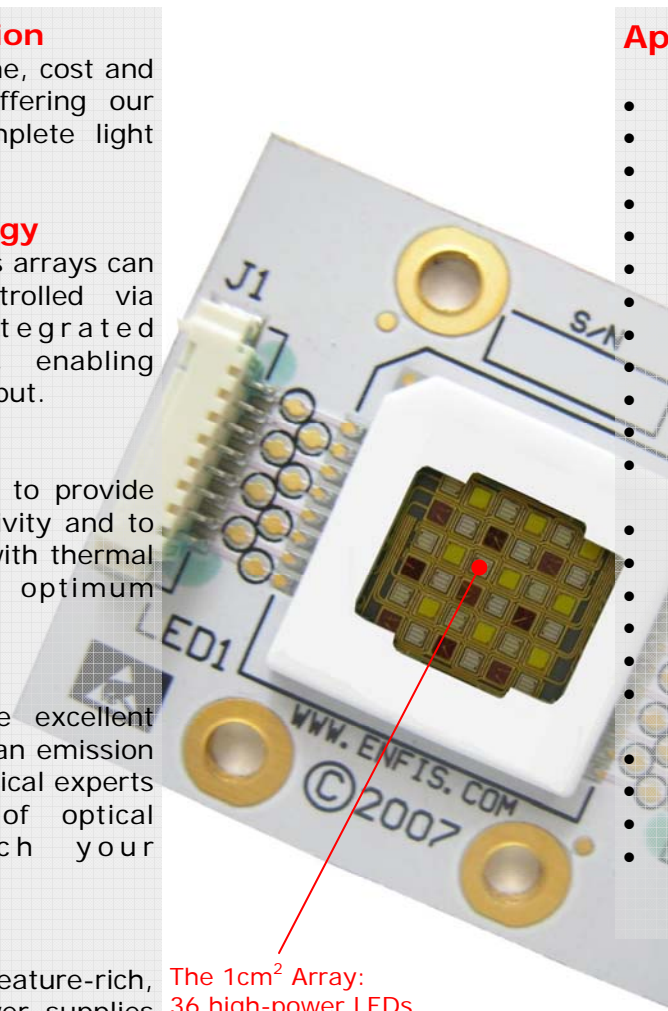
Enfis Uno arrays provide excellent spot source with Lambertian emission characteristics. Enfis technical experts can advise a range of optical solutions to match your requirements.

Power Management

Enfis provides a range of feature-rich, powerful drivers and power supplies for our arrays. Our applications team can provide you with a solution for your specific requirements.

Applications & Markets

- Architectural lighting
- Entertainment lighting
- Neo-natal
- Dental applications
- Forensic investigation
- Printing
- Projection lighting
- Backlighting
- Skin treatments
- Effect lighting
- Photo curing
- Non-Destructive Testing
- Sterilisation
- Signs
- Illumination
- Medical Treatment
- Traffic Lights
- Security and surveillance
- General lighting
- Retail lighting
- Fibre-optic illuminators
- Machine vision



The 1cm² Array:
36 high-power LEDs

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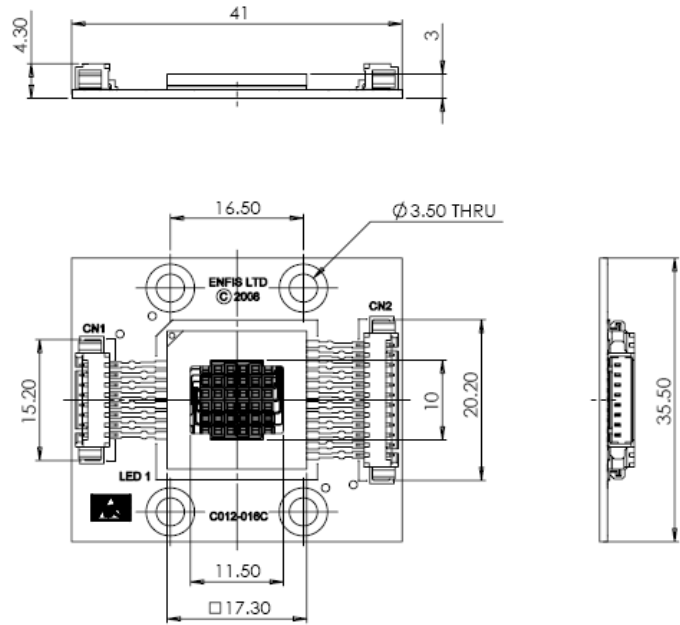


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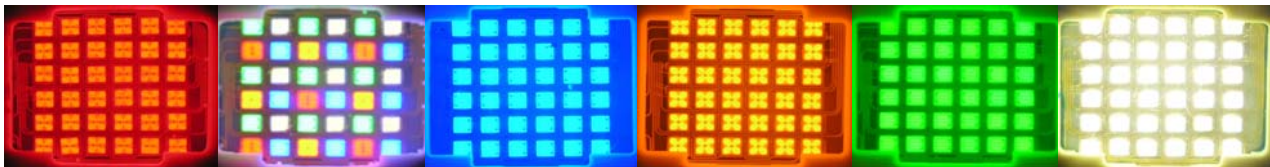
Technical Specification

Electro-Optical Characteristics

Colour	Peak Wavelength (nm)	Typ Light Output (mW)	Typ Light Output (lm)	Total Electrical Power (W)
Violet	405	6550	-	50
Blue	465	6900	420	50
Green	520	2800	1250	50
Amber	595	1950	900	50
Red	630	5000	900	50
NIR	870	5000	-	50
Neutral White	3900-4600K	-	1400	50
RGBA	R	1350	250	50 (12.5W/ Channel)
	G	850	350	
	B	1800	100	
	A	570	270	
RGBW	R	1350	250	50 (12.5W/ Channel)
	G	850	350	
	B	1800	100	
	W	-	350	
Hi-Cri	R/A	1000	260	50 (12.5W/ Channel)
	G	850	350	
	B	1800	100	
	W	-	350	
Please contact Enfis Ltd for further information				



All measurements performed at a heatsink temperature of 25°C



Heat Generation

Proper thermal design of the end product is of paramount importance. The operational junction temperature of each LED chip should be kept below 125°C. Please contact Enfis for further support in this matter.

Handling LED Array

Contact with the encapsulation on the surface of the LED array must be avoided to prevent damage. Do not apply pressure to the encapsulation or allow it to come into contact with sharp objects. During operation the encapsulation will be hot and contact should be avoided

Static Electricity

Care must be taken when handling, these products are sensitive to static electricity. Observe static handling precautions.



Cleaning

Avoid touching the LED array surface. To clean—BLOW surface with either dry air or nitrogen gas

Eye Safety Precautions

The light output of the products may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds.

Please refer to IEC 60825-1:2001 for further information



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