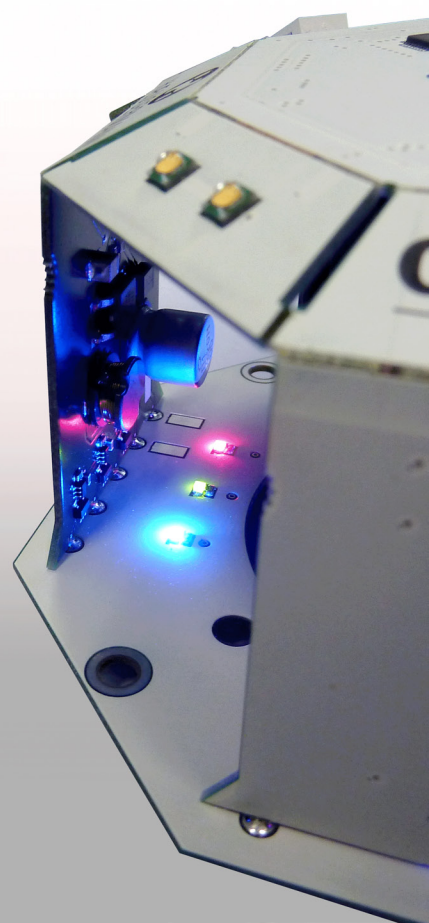


# LEDAGON



SHOWCASE PROJECT IN COOPERATION OF:



**KATHREIN**  
Austria

Your competent partner for innovative LED and electronic applications and automated production services

- Business unit LED light & electronics
- Professional hard- and software
- Customized and standard solutions
- OEM products

[www.kathrein-austria.at](http://www.kathrein-austria.at)

**HSMtec**



**HÄUSERMANN**

High Performance Printed Circuit Boards for LED applications

- Innovative FR4 / copper based PCBs
- Optimized thermal performance
- Multidimensional all-in-one boards
- Control intelligence on board

[www.haeusermann.at](http://www.haeusermann.at)



**CREE**  
LEDs

XLamp® LEDs and LED modules are built to the highest standards of performance in brightness, efficiency, consistency and longevity to deliver lowest system cost .

- Lighting Class Performance
- Right LED for the Right Application
- Ease of Use
- Able to deliver

[www.cree.com](http://www.cree.com)



**ARROW**

**ARROW ELECTRONICS**

Lighting in a new Dimension  
Arrow's truly systems-oriented support:

- Design & technical assistance
- Consulting the projects
- LED binning services
- Manufacturing services
- Sales & after sales care
- Product supply

[www.arroweurope.com/lighting](http://www.arroweurope.com/lighting)

Comprehensive competence for your LED project

For more information please visit: [www.kathrein-austria.at/ledagon](http://www.kathrein-austria.at/ledagon)

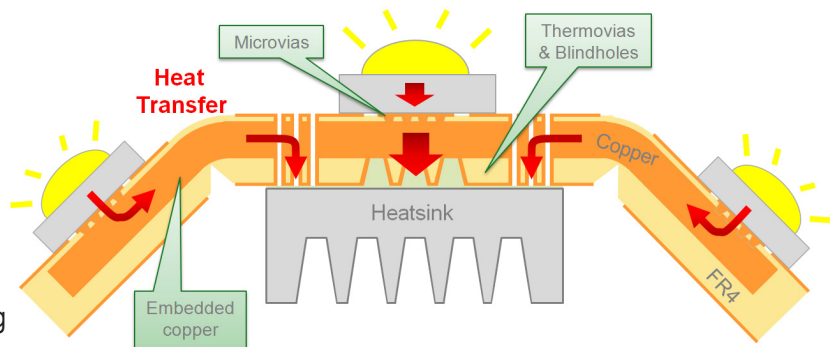
### Key-Features

- 4-Channel LED luminaire with independent control functions (ON/OFF, PWM-dimming)
- 1 high-power center LED (Cree XML) and 3 x 2 medium-power side LEDs (Cree XPG)
- 4 low-power R-G-B LEDs for effective illumination of electronic cabinet
- 16 current levels for center LED from 1.8A to 3.0A (selectable via DIP switches)
- 500mA fixed constant current for side LEDs
- 50mm cylindric aluminium heat sink
- Fan with intelligent temperature management (optional)
- DC power supply via standard laptop adapter (6.3mm, 12..24V / 50W)
- Control logic featured by an 8-bit AVR  $\mu$ Controller
- Mini-USB 2.0 interface for connecting to a host-PC or laptop
- Free Windows host application for remote control, diagnostics and firmware-updates
- Capacitive PCB slider for brightness and velocity control
- Capacitive PCB UP- & DOWN-buttons for selecting diverse operating modes
- 7-segment display for indicating the current operating mode
- Sensors for inclination and temperature



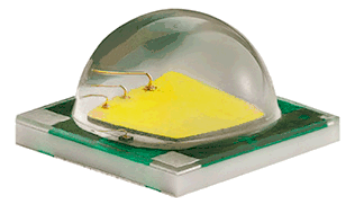
### Printed Circuit Board (PCB) – Specifications

- HSMtec - Printed Circuit Board technology
- Based on copper / FR4 to ensure optimal reliability and thermal performance
- Multidimensional PCB design for individual illumination
- 4-Layer board enables flexible electrical layout
- Sophisticated thermal management
- Embedded copper profiles guarantee rapid heat spreading
- LED-Heatpad directly connected to massive copper
- Innovative PCB housing design



### XM-L LED

- Delivers 1000 lumens at 100 lumens per Watt
- Low thermal resistance: 2.5°C/W
- ANSI-compatible chromaticity bins
- Electrically neutral thermal path
- Unique combination of very high efficiency at very high drive currents
- 20 % efficiency gain over the XLamp XP-G LED at the same current



Supported by

