

Solid State Lighting

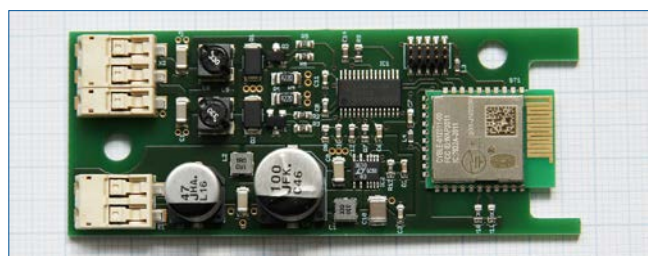
HCL (Human Centric Lighting) Panel Light feat. CCT color steering



More Information: www.ebv.com/hcl
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Smart Lighting Solution based on Infineon XMC1200 Microcontroller.

Light plays important role for the well-being of people, influences their day and night time rhythm, effects activity and the ability to concentrate. The earth's natural lighting cycle controls human's inner clock, also known as circadian rhythm. During the day the correlated color temperature (CCT) changes from warm, reddish 3000K in the morning, to a mid-day average levels of 5500K to 6500K (these CCT levels suppress melatonin production and increases the attention level), back to warmer CCTs in the afternoon and eventually going down to relaxing 3000K during the evening hours, triggering melatonin production and preparing human body for the overnight rest. The traditional light sources in everyday use are based on the constant CCT. The idea of Human Centric Lighting is to mimic the natural daily light cycle which is particularly important in modern society, where people spend most of their time indoors, exposed to artificial light sources. This type of lighting promotes well-being, can improve concentration and support healing processes, and prevents from sleeping disorders.

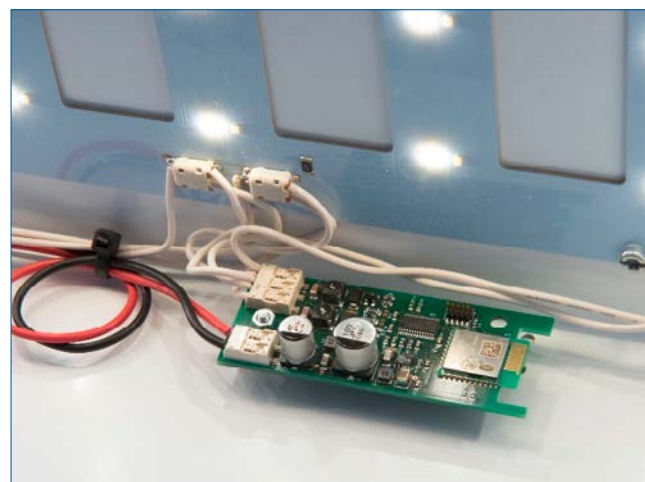


KEY COMPONENTS

- Infineon MCU XMC1202
- Samsung 5630 LEDs LM561B+or Osram Duris S2
- Cypress BLE CY_BLE_012011-00
- ADI/LTC driver ICs LTC3630
- SMPS 230VAC/48VDC:HEC-45LVA-48QSAF

VALUE PROPOSITION

- Tunable white solution, flicker-free down to very low dimming levels (below 1%)
- Fully-fledged turnkey reference design solution (BOM, schematics, gerber files for EMS productions)
- Sale of finished PCB modules possible through our manufacturing partners
- Customized smartphone apps



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