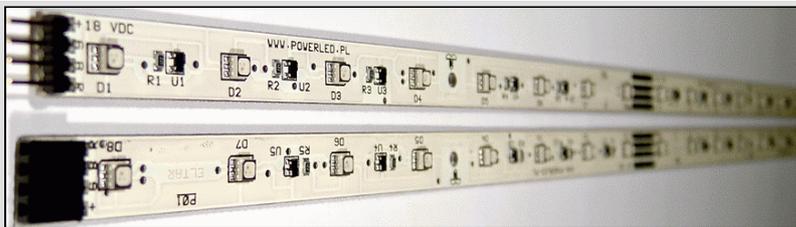


POWERLED® L16-**R****G****B**-OS STRIP



POWERLED® L16-RGB-OS is a LED module in the shape of 390 mm long strip where sixteen RGB LED diodes are installed. This module is produced by our company in the same form from the middle of the year 2005. While designing, one of the best at that time RGB diodes were used – RGB diode LED by OSRAM. Despite the fact that nowadays many companies produce diodes with the use of more modern technologies allowing getting higher light efficiency, this three-year-old project is still appreciated by our customers. It is because of slightly different, than in the diodes by other producers, red colour component. Any indirect colours made with the use of this red are really friendly for eyes, creating very pleasant impressions impossible to describe with the electrical and optical parameters of the diodes. This module is recommended especially for creating relaxing, romantic, not tiring lighting.

Current stabilizers with thermal compensation built in (ca. -0,3%/K) are used for supplying diodes. Modules are ended with a four-pin plug and a socket (common “plus”, separate “R”, “G”, “B” terminals) allowing direct connection up to 12 modules from one electrical terminal. These modules work with the PWM modulation power controllers of frequency up to 4 kHz. Strips can be fixed with polyamide screws (LPM-SR-M3-12-P) or double-sided sticky tapes (recommended tapes “3M” with higher strength). An acceptable work temperature range is from -30°C to +60°C.

TECHNICAL PARAMETERS

OPTICAL PARAMETERS ¹

¹ based on diode LED producer catalogue data

Dimensions (length/width/height)	390 x 12 x 4 mm (without plug “pins”)	Flux of light	red (617 nm)	typ. 36 lm
Diodes LED quantity, strip weight	16 pcs. (raster: 24 mm) ca. 18 g		green (528 nm)	min. 20 lm
Supply voltage	19 VDC +/- 5%		blue (470 nm)	min. 4,5 lm
Supply current (each colour: 100%)	I(R)≈90 mA, I(G)≈100 mA I(B)≈100 mA	Angle of light (2φ for I _v /2)		120°
Electric power (each colour: 100%)	ca. 5,5 W	Number of possible colours (controller: three 8-bit channels)		ca. 16,7 mln

Model configurations: CONTROLLER & L16-RGB-OS STRIPS

Controller type	Maximum number of L16-RGB-OS strips	Consumed electric power (for maximum number of strips)
„MINI-PCB”	up to 12 strips	ca. 70 W (each colour: 100%)
S3-4	up to 40 strips	ca. 220 W (each colour: 100%)
S3-8	up to 70 strips	ca. 390 W (each colour: 100%)

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