

# LED Modules For Signs

## Facts & Figures

	Code	Colours Temp/Wavelength	Modules per Chain	Beam Angle	Lumens p/module	Watts p/module	Lumen Efficiency lm/w	Voltage	Dims. (LxWxH)	IP Rank	Expected Lifespan	Warranty	Qty of modules per psu (@ 90%)
	SGMINI	Pure White 6500K	20	120	28	0.25	112	12vdc	9*6*4	65	50,000hrs	1yr	18w = 64 35w = 126 60w = 216 100w = 360 150w = 540
	SG1	Pure White 6500K	20	120	27	0.3	90	12vdc	18*8*3	65	13,000hrs	1yr	18w = 54 35w = 105 60w = 180 100w = 300 150w = 450
	QU1X	Pure White 6500K Warm White 3000K Red, Blue, Green, Yellow	20	160	W 30 R/Y 7 B 4 G 11	0.36	84 (White)	12vdc	16*10*10	65	30,000hrs	3yrs	18w = 45 35w = 87 60w = 150 100w = 250 150w = 375
	PE1	Cool White 7500K	20	170	47	0.5	94	12vdc	22*14*10	67	50,000hrs	5yrs	18w = 32 35w = 63 60w = 90 100w = 150 150w = 225
	SG2X	Pure White 6500K Red Blue	20	140	W 15 R 6 B 7	0.25	60 (White)	12vdc	26*7*4	65	20,000hrs	1yr	18w = 64 35w = 126 60w = 216 100w = 360 150w = 540
	SG3X	Pure White 6500K Warm White 3000K Red, Blue, Green, Yellow	20	140	W 25 R 5 B 7 G 15	0.30	83 (White)	12vdc	39*12*4	65	20,000hrs	1yr	18w = 54 35w = 105 60w = 180 100w = 300 150w = 450
	HB2X	Pure White 6500K Warm White 3000K	20	150	44	0.48	92	12vdc	47*15*4	65	50,000hrs	1yr	18w = 32 35w = 63 60w = 90 100w = 150 150w = 225
	RGB2	RGB	20	140	RGB 21	0.48	44	12vdc	47*15*4	65	50,000hrs	1yr	18w = 32 35w = 63 60w = 90 100w = 150 150w = 225
	QU2X	Pure White 6500K Warm White 3000K Red, Blue, Green, Yellow	20	160	W 64 R/Y 12 B 6 G 24	0.72	89 (White)	12vdc	50*15*10	65	30,000hrs	3yrs	18w = 22 35w = 43 60w = 75 100w = 125 150w = 187
	PE2X	Cool White 7500K Warm White 3000K Red, Blue, Green, Yellow	20	170	W 95 R/Y 20 B 11 G 30	1	95	12vdc	50*18*10	67	50,000hrs	5yrs	18w = 16 35w = 31 60w = 54 100w = 90 150w = 135
	QU3	Pure White 6500K	20	160	95	1	95	12vdc	69*15*10	65	30,000hrs	3yrs	18w = 16 35w = 31 60w = 54 100w = 90 150w = 135
	PE3X	Cool White 7500K Warm White 3000K	20	170	140	1.5	93	12vdc	76*18*10	67	50,000hrs	5yrs	18w = 11 35w = 21 60w = 36 100w = 60 150w = 90
	RGB3	RGB	20	160	RGB 22	0.72	31 (RGB)	12vdc	85*15*11	66	50,000hrs	3yrs	18w = 22 35w = 43 60w = 75 100w = 125 150w = 187
	PE6	Pure White 6500K	20	160	285	3	95	12vdc	74*48*7	65	50,000hrs	3yrs	18w = 5 35w = 11 60w = 18 100w = 30 150w = 112
	LBAR18	Pure White 6500K	18	30	90 (1620 p/m)	18	90	24vdc	1000 *27*17	65	30,000hrs	2yrs	18w = 0.9m 35w = 1.75m 60w = 3m 100w = 5m 150w = 7.5m
	DOT9X	Pure White 6500K Red, Blue, Green, Yellow	50	90	W 7 R/Y 2.5 B 2 G 5	0.15	n/a	5vdc	22*11	65	30,000hrs	2yr	18w = 108 35w = 210 60w = 360 100w = 600 150w = 900
	DOT12X	Pure White 6500K Red	50	90	W 7 R 2.5	0.15 0.15	n/a	5vdc	29*14	65	30,000hrs	2yr	18w = 108 35w = 210 60w = 360 100w = 600 150w = 900
	DOT12RGB	RGB 6500K	50	90	RGB 8	0.3	n/a	5vdc	33*12	65	30,000hrs	2yr	18w = 54 35w = 105 60w = 180 100w = 300 150w = 450
	CB1	Pure White 6500K	20	160	100	1.4	71	12vdc	36*18*8	65	13,000hrs	1yr	18w = 11 35w = 22 60w = 38 100w = 64 150w = 96

End of line product. Once it's gone, it's gone! These need to be fit to a heat conductive backing such as aluminium or steel to help with heat dissipation

Key  
 1st In Class = ✓  
 2nd In Class = ✓  
 Smallest in mm = ↓

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# LED Modules For Signs

## Design/Spacing Information



Eg: 1000 x 1000mm Lightbox  
 Calculated for the min. qty of leds to achieve  
 even illumination at the return depths stated.

Code	Recommended for...					For Even Face Illumination...							Eg: 1000 x 1000mm Lightbox			
	Face Illumination	Halo Illumination	Small Channel Letters	Large Channel Letters	Light-boxes	Max LED Spacing	LED Qty p/m	Minimum Return Depth	Returns Depths	Row Spacing	LED Spacing	Quoting Formula	Total White LEDs	LUX Lumen psqm (ie: Brightness)	Cost Comparison At Full Price (only a guide)	
SGMINI	✓	✓	✓	✗	✗	64mm	15	50mm	50 < 60mm 65 < 75mm 80mm <	50mm 60mm 70mm	50mm 60mm 70mm	n/a	n/a	n/a	n/a	
SG1	✓	✓	✓	✗	✗	64mm	15	50mm	50 < 60mm 65 < 75mm 80mm <	50mm 60mm 70mm	50mm 60mm 70mm	n/a	n/a	n/a	n/a	
QU1	✓	✓	✓	✗	✗	70mm	14	↓ 40mm	40 < 55mm 60 < 75mm 80mm <	55mm 80mm 95mm	70mm 90mm 105mm	n/a	n/a	n/a	n/a	
PE1	✓	✓	✓	✗	✗	120mm	8	↓ 40mm	40mm 45mm <	50mm 60mm	50mm 60mm	n/a	n/a	n/a	n/a	
SG2	✓	✓	✓	✗	✗	80mm	12	50mm	50 < 60mm 70 < 85mm 90mm <	40mm 50mm 70mm	40mm 50mm 70mm	n/a	n/a	n/a	n/a	
SG3	✓	✓	✓	✓	✓	90mm	11	50mm	50 < 65mm 70 < 85mm 90mm <	60mm 70mm 90mm	60mm 70mm 90mm	0.0035 0.0049 0.0081	278 204 123	6950 5100 3075	£152.90 £112.20 £67.65	
HB2	✓	✓	✗	✓	✓	130mm	7	60mm	60 < 75mm 80 < 95mm 100mm <	70mm 70mm 100mm	90mm 120mm 130mm	0.0062 0.0084 0.014	134 97 60	5911 4287 2650	£104.52 £75.66 £46.80	
RGB2	✓	✓	✓	✓	✓	130mm	7	70mm	70 < 80mm 85 < 95mm 100mm <	70mm 80mm 90mm	100mm 110mm 130mm	n/a	142 114 85	2982 2394 1785	£156.20 £125.40 £93.50	
QU2	✓	✓	✓	✓	✓	159mm	6	60mm	60 < 75mm 80 < 95mm 100mm <	75mm 95mm 110mm	90mm 110mm 130mm	n/a	150 95 70	9600 ✓ 6080 ✓ 4480 ✓	£133.50 £84.55 £62.30	
PE2	✓	✓	✓	✓	✓	175mm	5/6	↓ 40mm	40 < 50mm 55 < 70mm 70mm <	90mm 100mm 110mm	90mm 100mm 110mm	n/a n/a n/a	121 100 81	11495 ✓ 9500 ✓ 7695 ✓	£134.31 £111.00 £89.91	
QU3	✓	✓	✗	✓	✓	200mm	5	80mm	80 < 95mm 100 < 115mm 120mm <	110mm 130mm 150mm	150mm 170mm 170mm	n/a	60 55 46	5700 ✓ 5225 ✓ 4370	£66.60 £61.05 £51.06	
PE3	✓	✓	✗	✓	✓	200mm	5	↓ 60mm	60 < 70mm 75 < 90mm 90mm <	110mm 130mm 150mm	110mm 130mm 150mm	n/a n/a n/a	81 64 49	11340 ✓ 8960 ✓ 6860 ✓	£107.73 £85.12 £65.17	
RGB3	✓	✓	✗	✓	✓	275mm	3/4	80mm	80 < 95mm 100mm <	100mm 120mm	160mm 180mm	n/a	63 47	1386 1034	£100.80 £75.20	
PE6	✓	✓	✗	✓	✓	200mm	5	200mm	200 < 350mm 360 < 500mm	150mm 200mm	150mm 200mm	n/a	44 25	12540 ✓ 7125	£83.60 £47.50	
LBAR18	✗	✗	✗	✗	✓	n/a	18	150mm	150mm <	This is an edgelit light bar - 1 edge for boxes upto 600mm in height. - 2 opposite edges for boxes upto 1500mm in height			n/a	2m	2880	£40.00
DOT9	✓	✗	✓	✓	✗	55	18	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
DOT12	✓	✗	✓	✓	✗	60	16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
DOT12RGB	✓	✗	✓	✓	✗	60	16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
CB1	✓	✓	✗	✓	✓	120mm	8	60mm	60 < 75mm 80 < 95mm 100mm <	60mm 80mm 120mm	80mm 100mm 120mm	0.0048 0.008 0.014	180 104 54	18017 10350 5378	£117.00 £67.60 £35.10	

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