

TALEXchain P541, P551 & P561 EXCITE

LED chains for channel letters and light boxes



Letter standard



Letter mini



Lightbox standard



Lightbox slim



Light contour

Perfect homogeneity, fewer modules – beam characteristic 155°

The next generation of P541, P551 and P561 modules, each equipped with three light points with individual lenses, provide extremely uniform illumination for signage applications. Thanks to the higher luminous flux and increased efficiency, fewer modules and fewer converters are needed for the same brightness. Installation costs are correspondingly low, which means that overall costs are much lower. Another benefit is that the small P541 and P551 modules with 155° wide-angle light points produce their optimum effect at a mounting depth of only 4 cm.

- ___ [Perfectly uniform illumination](#)
- ___ [Small mounting depth](#)
- ___ [Low material and assembly costs](#)

Small robust modules – IP68

IP 68 design and high-quality materials reliably protect the electronic components and in particular the phosphor of the light emitting diodes against environmental factors. Thanks to their reduced width the modules can be installed even in small applications.

- ___ [High-quality materials](#)
- ___ [Small modules](#)

Maximum flexibility

Optimum illumination and no annoying cables: TALEXchain EXCITE chains are available with two module spacings to keep installation costs as low as possible for all applications. Because the P541 and P551 modules are the same size it is possible to adapt the brightness of the sign to meet specific customer requirements by simply switching between the P541 and P551 modules without changing the layout and mounting arrangement.

- ___ [Low installation costs](#)
- ___ [Different brightness levels from the same mounting arrangement](#)



TALEXchain P551 / P541

Narrow white light tolerance – MacAdam 5

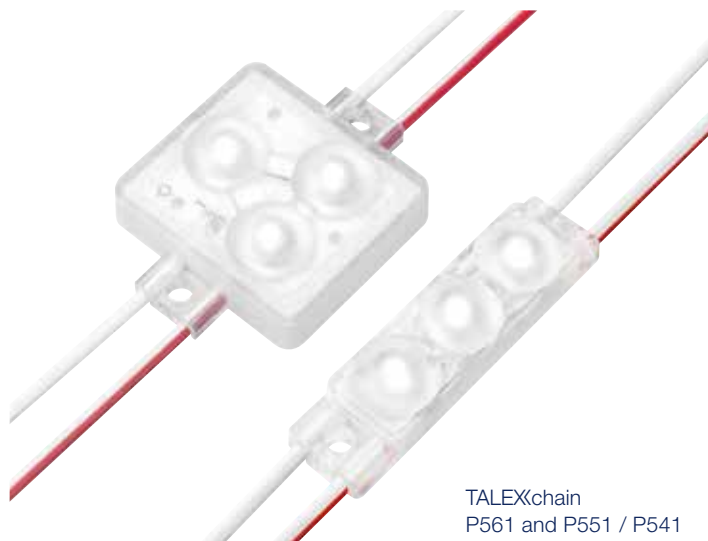
The human eye can detect the smallest differences in light colours. To ensure that the individual letters and signs are perfectly uniform the LED modules and LED chains must exhibit a very narrow white light tolerance. Tridonic is one of only a few manufacturers who can guarantee a MacAdam 5 white light tolerance for its TALEXchain EXCITE products and is constantly striving to improve the quality of white light still further. The new generation of TALEXchain EXCITE units has an improved colour mix for the individual light points, resulting in a light colour that is even more brilliant and uniform – even at low mounting depths.

- ___ [Brilliant uniform light colour](#)
- ___ [Perfect signage effect](#)
- ___ [No colour difference after replacement](#)

5-year guarantee

With a 5-year guarantee on TALEXchain EXCITE products, Tridonic is guaranteeing a lifetime of up to 50,000 hours – even at high ambient temperatures of up to 60°C. Thanks to Tridonic's robust TALEXchain EXCITE modules, equipment failure, high replacement costs and loss of light output can be avoided.

- ___ [High reliability](#)
- ___ [No consequential costs, no loss of advertising impact](#)



TALEXchain
P561 and P551 / P541

▼ At a glance

- ___ Beam characteristic 155°:
uniform light distribution with fewer modules
- ___ MacAdam 5: narrow white light tolerance
- ___ Small robust modules with IP68 protection
- ___ Maximum flexibility
- ___ 5-year guarantee
- ___ Matching converters in IP20 and IP67 designs for 10W to 150W
- ___ Dimmable with TALEXcontrol LNU PWM dimmers

Technical property	P561	P551	P541 ... X	P541
Luminous flux ¹⁾	154lm	60lm	45lm	31lm
Luminous efficacy	104lm/W	86lm/W	88lm/W	92lm/W
Power per module	1.48W	0.70W	0.50W	0.34W
Beam characteristic	155°	155°	155°	155°
Light colour ²⁾	DL (6,500K) NW (4,000K) WW (3,000K)	DL (7,500K) DL (6,500K) NW (4,000K) WW (3,000K)	CL (7,500K) DL (6,500K)	CL (7,500K) DL (6,500K) R (620–630nm) G (520–537nm) B (465–470nm) O (600–609nm) A (583–592nm)
White light tolerance	MacAdam 5	MacAdam 5	MacAdam 5	MacAdam 5
Type of protection	IP68	IP68	IP68	IP68
Number of modules per chain	50pcs	100pcs	100pcs	100pcs
Distance between modules	250mm / 300mm	150mm / 200mm	150mm / 200mm	100mm / 150mm
Ambient temperature t_a	-40 ... +60°C	-40 ... +60°C	-40 ... +60°C	-40 ... +60°C
Storage temperature t_s	-40 ... +85°C	-40 ... +85°C	-40 ... +85°C	-40 ... +85°C
Guarantee	5 years	5 years	5 years	5 years
Expected life time at t_a 60°C	50,000h	50,000h	50,000h	50,000h
Marks of conformity	CE	CE, ENEC, cRUus, cCSAus	CE, ENEC, cRUus, cCSAus	CE, ENEC, cRUus, cCSAus
Tape	3M VHB 5925	3M VHB 5925	3M VHB 5925	3M VHB 5925
Can depth	> 12 cm	> 4 cm	> 4 cm	> 4 cm

¹⁾ Luminous flux for light colour DL (6,500 K)

²⁾ Colour temperature for information only. Detailed information see data sheet.

TALEXchain P541, P551 & P561

TALEXchain P561	Art. No. Distribution Center Europe	Art. No. Distribution Center Asia-Pacific	Luminous flux per module	Light colour	Colour temperature ¹⁾	Spacing between modules
P561 G1 DL 154lm 250mm 50 68 EXC	28000958	n/a	154lm	Daylight white (DL)	6,500K	250mm
P561 G1 DL 154lm 300mm 50 68 EXC	28000959	n/a	154lm	Daylight white (DL)	6,500K	300mm
P561 G1 NW 142lm 300mm 50 68 EXC	28000960	n/a	142lm	Neutral white (NW)	4,000K	300mm
P561 G1 WW 130lm 300mm 50 68 EXC	28000957	n/a	130lm	Warm white (WW)	4,000K	300mm

¹⁾ Colour temperature for information only. Detailed information see data sheet.

TALEXchain P551	Art. No. Distribution Center Europe	Art. No. Distribution Center Asia-Pacific	Luminous flux per module	Light colour	Colour temperature ¹⁾	Spacing between modules
LED P551E-S CW 12 200 100 68 B G1	28000717	n/a	60lm	Crystal white (CL)	7,500K	200mm
LED P551E-S DL 12 150 100 68 B G1	28000365	87500297	60lm	Daylight white (DL)	6,500K	150mm
LED P551E-S DL 12 200 100 68 B G1	28000366	87500298	60lm	Daylight white (DL)	6,500K	200mm
LED P551E-S NW 12 200 100 68 B G1	28000432	n/a	66lm	Neutral white (NW)	4,000K	200mm
LED P551E-S WW 12 200 100 68 B G1	28000433	n/a	66lm	Warm white (WW)	3,000K	200mm

¹⁾ Colour temperature for information only. Detailed information see data sheet.

TALEXchain P541	Art. No. Distribution Center Europe	Art. No. Distribution Center Asia-Pacific	Luminous flux per module	Light colour	Colour temperature ¹⁾	Spacing between modules
LED P541E-C CW 12 150 100 68 B G1	28000715	n/a	31lm	Crystal white (CL)	7,500K	150mm
LED P541E-C CW 12 150 100 68 B G1 X	28000176	n/a	45lm	Crystal white (CL)	7,500K	200mm
LED P541E-C DL 12 100 100 68 B G1	28000361	87500293	31lm	Daylight white (DL)	6,500K	100mm
LED P541E-C DL 12 150 100 68 B G1	28000362	87500294	31lm	Daylight white (DL)	6,500K	150mm
LED P541E-C DL 12 150 100 68 B G1 X	28000363	87500295	45lm	Daylight white (DL)	6,500K	150mm
LED P541E-C DL 12 200 100 68 B G1 X	28000364	87500296	45lm	Daylight white (DL)	6,500K	200mm
LED P541E-C R 12 150 100 68 B G1	28000468	87500359	12lm	Red (R)	620–630nm	150mm
LED P541E-C G 12 150 100 68 B G1	28000471	n/a	35lm	Green (G)	520–537nm	150mm
LED P541E-C B 12 150 100 68 B G1	28000472	n/a	11lm	Blue (B)	465–470nm	150mm
LED P541E-C O 12 150 100 68 B G1	28000469	n/a	16lm	Orange (O)	600–609nm	150mm
LED P541E-C A 12 150 100 68 B G1	28000470	n/a	12lm	Amber (A)	583–592nm	150mm

¹⁾ Colour temperature for information only. Detailed information see data sheet.

Support and advice from a single source

We will help you to create messages out of light that are unbeatable in terms of economy and functionality.

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