Expertise
Product quality
Customer focus
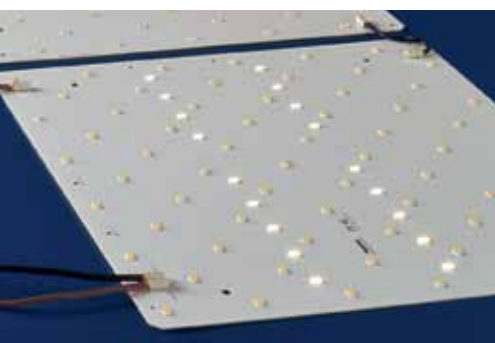
TALEXXengine STARK QLE

TRIDONIC
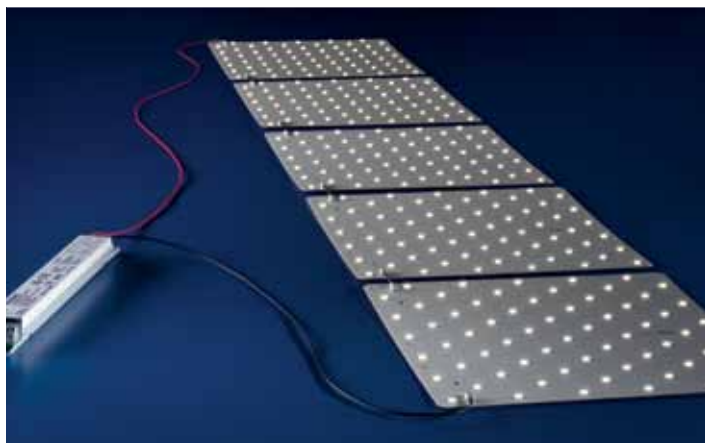▼enlightening your ideas
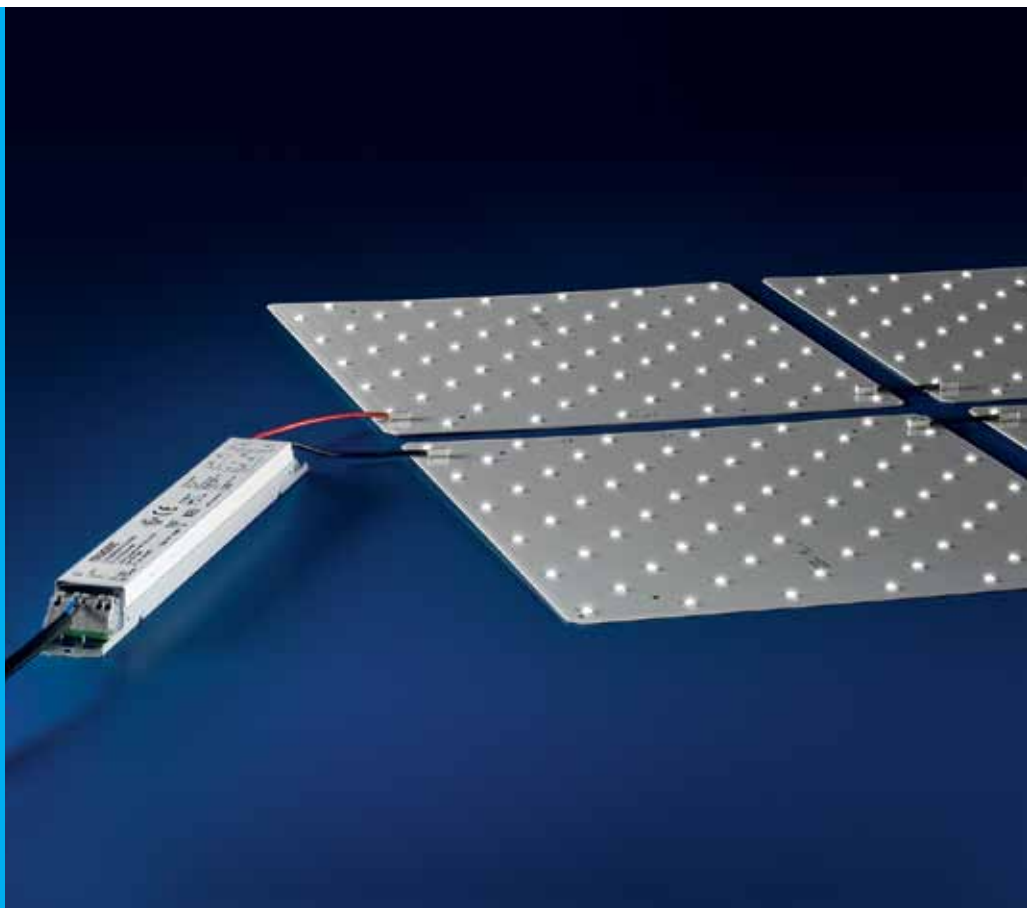
TALEX‹engine STARK QLE:
The square team player –
efficient, flexible, square

TALEX‹engine STARK QLE	TALEX‹engine STARK QLE EM
CLASSIC	CLASSIC
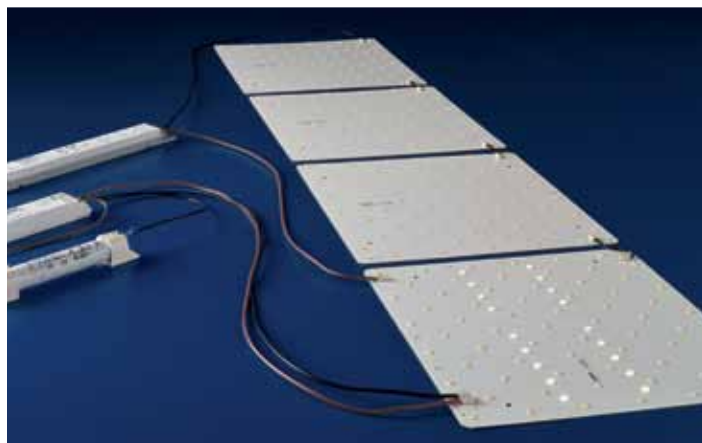
The square design with an edge length of 270 mm is an ideal basis for equipping linear fixtures or square fixtures. TALEX‹engine STARK QLE can be combined not only with products of the same design but also with its linear TALEX‹engine STARK LLE sister products. It is therefore very easy to implement new design concepts. Up to six LED modules can be operated with just one converter.

For emergency lighting mode there are special QLE emergency lighting modules on which separate emergency lighting LEDs are fitted and which can be easily combined with the modules for standard operation. The separate emergency lighting modules and the conventional LED modules in combination with EM converterLED are suitable for decentral operation.

With excellent colour rendering and a choice of warm white or neutral white colour temperatures, this LED system solution is a high-quality replacement for T5, T8 and TCL fluorescent lamps, providing pleasant feel-good light.

▼ **At a glance:**
    TALEX‹engine STARK QLE product series

__ LED system solution with outstanding system efficiency of up to 100 lm/W, consisting of a square LED module and converter

__ Close colour tolerance: MacAdam 3

__ Integrated emergency lighting function in combination with TALEX‹module STARK QLE EM

__ Light output of 1,250 lumen per LED module (hot lumen measurement at 65 °C for technical specification under real conditions)

__ High colour rendering index (CRI >80)

__ Colour temperatures of 3,000 K, 4,000 K and 5,000 K

__ Option of combining multiple products, also with TALEX‹engine STARK LLE

__ Emergency lighting compatible converter in dimmable and non-dimmable versions

__ Long lamp life of up to 50,000 hours

Typical applications

For indoor applications TALEXengine STARK QLE is perfect in various fixture types such as linear and square designs. TALEXengine STARK QLE can be used wherever conventional fluorescent lamps are currently being used.
Typical applications:

__ Offices and schools

__ Industry and technology

Components

The TALEXengine STARK QLE system comprises the following components:

__ TALEXmodule STARK QLE or TALEXmodule STARK QLE EM in the CLASSIC version.
   The properties of the module are given on the following pages.

__ TALEXconverter: There are suitable emergency lighting compatible* converters in dimmable and non-dimmable versions available for operating the module.

__ EM powerLED 1-4W*: For decentralised emergency lighting operation of the module

__ EM converterLED*: For decentral emergency lighting operation without special emergency lighting module

Interfaces

__ DALI: Integrated DALI functionality enables the brightness to be controlled via a digital control signal.

__ switchDIM: The integrated switchDIM function allows a standard momentary-action switch to be connected directly for dimming purposes.

__ DSI: Integrated DSI functionality enables the brightness to be controlled via a digital control signal.

__ corridorFUNCTION: The integrated corridorFUNCTION enables the brightness to be automatically controlled via motion sensors.

*Technical details for this product can be found in our catalogue, in the brochure for emergency lighting units or on the data sheets (available to download from www.tridonic.com).

TALEX engine STARK QLE

The TALEX engine STARK QLE system is available in the following versions:

| Properties/functions	TALEX engine STARK QLE
Colour temperature	3,000 K or 4,000 K
Luminous flux	1,190 lm (at 3,000 K) 1,250 lm (at 4,000 K) 1,300 lm (at 5,000 K)
Colour rendering/colour tolerance	CRI > 80 / MacAdam 3 SDCM
System efficiency	93 lm/W (at 3,000 K) 97 lm/W (at 4,000 K) 100 lm/W (at 5,000 K)
Emergency lighting function	In combination with TALEX module QLE EM and EM powerLED 1-4W
DALI	Device Type 6 for converters with the dimming function
switchDIM	For converters with the dimming function
Typical supply voltage per module	33.7 V
Ambient temperature t_a	Up to +50 °C
Max. surface temperature for TALEX module STARK QLE	65 °C
Protection class, system solution	Protection class I
Protection class of TALEX module STARK QLE	Protection class I
System guarantee	5 years

Configuration options with TALEX‹engine STARK QLE:

The TALEX‹engine QLE LED system solution is typically used in linear and square fixtures. Four to six LED modules can be operated in series with just one converter. The different configuration options, also in combination with the TALEX‹engine STARK LLE product series, not only provide a high degree of flexibility, they also open up new fixture designs with the only limitation being the creativity of the designer.

In terms of safety, too, the system is second to none: the standard modules can easily be combined with TALEX‹module STARK QLE EM and the appropriate emergency lighting units.
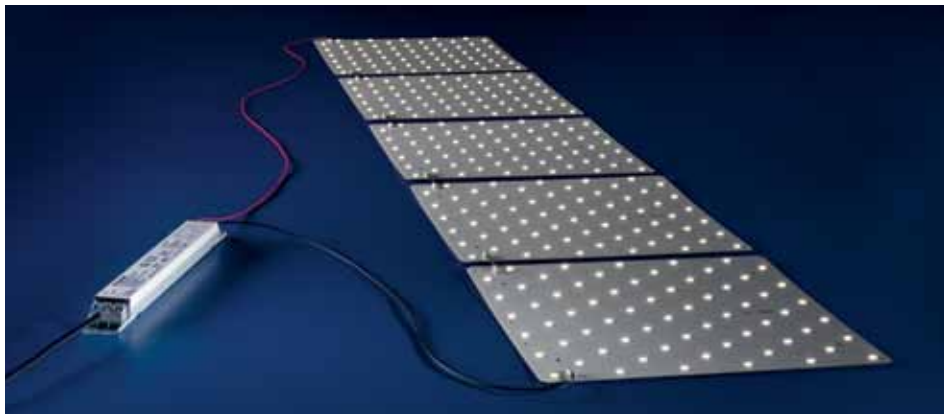
Possible configuration comprising five TALEX‹module STARK QLE units and TALEX‹converter LCAI 080/0350 I010 one4all.
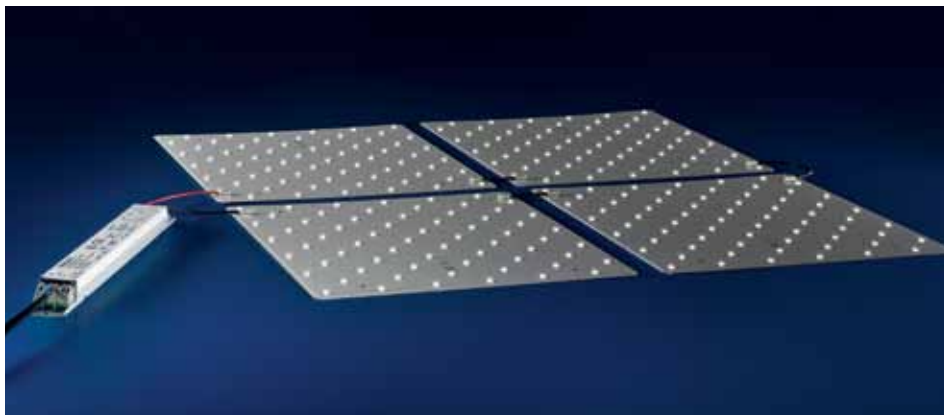
Possible configuration comprising four TALEX‹module STARK QLE units and TALEX‹converter LCAI 080/0350 I010 one4all.
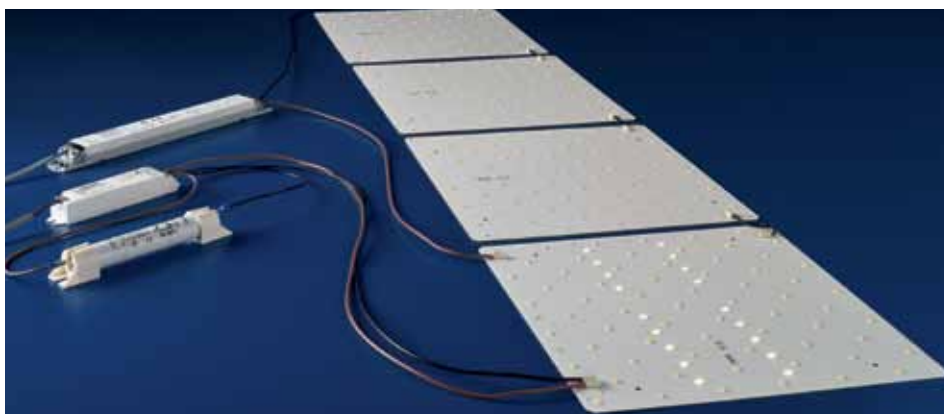
Possible configuration comprising three TALEX‹module STARK QLE units, one TALEX‹module STARK QLE EM, one TALEX‹converter LCAI 080/0350 I010 one4all, EM powerLED 1-4W emergency lighting units and Nimh battery.

TRIDONIC

Terminals for quick and easy wiring

Perfectly uniform light, even if several LED modules are used together

Unobtrusive cabling thanks to cable penetration or cable return

TALEXXengine STARK QLE CLASSIC

The TALEXXengine STARK QLE CLASSIC and TALEXXengine STARK QLE EM CLASSIC system is an attractive entry-level solution for general illumination with LEDs. TALEXXconverters with or without a dimming function are available depending on the application.

Type	Article number	Colour temperature	Mac Adam	Typical luminous flux*	Typical power consumption*
STARK QLE-1250-830-CLA	25000717	3,000 K	SDCM 3	1,190 lm	11.8 W
STARK QLE-1250-840-CLA	25000718	4,000 K	SDCM 3	1,250 lm	11.8 W
STARK QLE-1250-850-CLA	25000821	5,000 K	SDCM 3	1,300 lm	11.8 W
STARK-QLE-1250-830-CLA-EM	25000817	4,000 K	SDCM 3	1,250 lm	11.8 W
STARK-QLE-1250-840-CLA-EM	25000819	4,000 K	SDCM 3	1,250 lm	11.8 W

*Tolerance range for electrical data: ±10 %, tolerance range for photometric data: ±10 %

Matching TALEXXconverters:

TALEXXmodule	TALEXXconverter IN-BUILT with dimming function			TALEXXconverter IN-BUILT without dimming function			EM powerLED 1-4W**
	LCAI 080/0350 I010 one4all Art. no. 86459392	LCAI 050/1050 R010 one4all Art. no. 86459245*	LCAI 055/1400 R010 one4all Art. no. 86459246*	LCI 050/1050 R010 Art. no. 86459216	LCI 055/1400 R010 Art. no. 86459217	LCI 080/0350 I010 Art. no. 86459366	
STARK QLE-1250-830-CLA Art. no. 25000719	▼	▼	▼	▼	▼	▼	
STARK QLE-1250-840-CLA Art. no. 25000720	▼	▼	▼	▼	▼	▼	
STARK QLE-1250-850-CLA Art. no. 25000821	▼	▼	▼	▼	▼	▼	
STARK-QLE-1250-830-CLA-EM Art. no. 25000817	▼	▼	▼	▼	▼	▼	▼
STARK-QLE-1250-840-CLA-EM Art. no. 25000818	▼	▼	▼	▼	▼	▼	▼

*available in autumn 2012, **technical details for this product can be found in our catalogue, in the brochure for emergency lighting units or on the data sheets (available to download from www.tridonic.com).

Matching TALEX converters:

TALEX module	TALEX converter REMOTE with dimming function		TALEX converter REMOTE without dimming function		
	LCAI 050/1050 T020 one4all Art. no. 86459247*	LCAI 055/1400 T020 one4all Art. no. 86459248*	LCI 050/1050 T020 Art. no. 86459218	LCI 055/1400 T020 Art. no. 86459219	LCCI 016/0350 B020 Art. no. 86459210
STARK QLE-1250-830-CLA Art. no. 25000719	▼	▼	▼	▼	▼
STARK QLE-1250-840-CLA Art. no. 25000720	▼	▼	▼	▼	▼
STARK QLE-1250-850-CLA Art. no. 25000821	▼	▼	▼	▼	▼

*available in autumn 2012

▶ Further technical details for these products can be found at led.tridonic.com.

Matching accessories

We offer you system solutions – in other words matching products from a single source. With regard to controllers, Tridonic offers a comprehensive range of DALI-compatible products. All the devices specified here support DALI Device Type 6 and therefore guarantee effective use of TALEX engine STARK QLE.

Product name	Article number
DALI M-Sensor	86458265
DALI SC	24034263
DALI MC	86458507
DALI Touchpanel	24035465
x-touchBOX	24138954
x-touchPANEL	24138990
DALI PS	24033444
DALI USB	24138923

▶ For more information and technical data on the entire TALEX product portfolio go to led.tridonic.com.

Product application matrix

Whether you are looking for wide-area lighting or focused accent lighting, our wide range of TALEX products will help you create an individual atmosphere and highlight specific areas exactly as you want. Our product portfolio includes individual light points, round, rectangular and strip versions. Specially matched operating equipment such as converters, amplifiers and sequencers round off the components for a perfect system solution: They guarantee ideal operation and maximum efficiency.

TALEXengine	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXengine STARK DLE		▼						
TALEXengine STARK DLE TWIST	▼	▼						
TALEXengine STARK SLE	▼	▼			▼	▼		▼
TALEXengine STARK LLE			▼	▼	▼	▼		
TALEXengine STARK QLE				▼	▼			
TALEXengine INDI *			▼			▼		

TALEXmodule	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXmodule SPOT	▼	▼			▼	▼	▼	▼
TALEXmodule RECTANGULAR	▼	▼			▼	▼	▼	
TALEXmodule FULMEN	▼	▼						
TALEXmodule STRIP								▼
TALEXmodule EOS								▼
TALEXmodule XED DECO		▼	▼	▼	▼			▼

TALEXconverter	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXconverter REMOTE dimmable (LCA)		▼	▼	▼				▼
TALEXconverter IN-BUILT dimmable (LCA)	▼		▼	▼	▼	▼	▼	▼
TALEXconverter REMOTE non-dimmable (LC)		▼	▼	▼				▼
TALEXconverter IN-BUILT non-dimmable (LC)	▼		▼	▼	▼	▼	▼	▼

* available in autumn 2012

Support and advice from a single source
We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to our slogan: We devote all our energy to your light.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries. The easiest way to find your regional contact is to check our website at www.tridonic.com.

Just what you need for your LED lighting:
Systems, modules, components and more
__ Impressive lighting thanks to outstanding white light quality
__ Reliability thanks to permanent colour precision
__ Flexibility thanks to a wide-ranging product portfolio
__ Advice and support from the excellent Tridonic-Service team

This way you'll have LED lighting completely under control.
led.tridonic.com