

# Unlock New Opportunities in LED Lighting



## Nuventix SynJet® Thermal Solutions for Tridonic TALEXXengine Stark LED Modules

### Features

- Enables higher lumen packages
- Up to 1/3 the size of passive cooling
- Lighter weight than passive solutions
- Energy efficient
- Quiet operation
- 100K hours lifetime
- Thermally engineered and designed specifically for Tridonic LED Modules
- Tridonic LED drivers have a built in power connection for the SynJet for a Plug and Play solution

### Benefits

- Flexible design for smaller overall luminaires - Contemporary form or height limited areas
- Easy to design in for fastest time to market
- Minimal additional power required for cooling
- Excellent in low noise requirement areas
- Cooling life is longer than the module or driver - does not limit luminaire usable life
- One heat sink design can be used for higher and lower lumen offerings by coupling with a SynJet cooler, allowing higher lumen fixtures with the same form factor

# Nuventix SynJet® Coolers and Heatsinks for Tridonic TALEXXengine LED Modules

## Guide:

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications, for noise sensitive applications choose "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 4 of this guide.

Tridonic TALEXXengine Stark SLE LED Modules												
Heatsink	Spotlight Cooler 38W				Spotlight Cooler 34W				Spotlight Cooler 31W			
SynJet	ZFlow 75				ZFlow 75				ZFlow 75			
SynJet Setting	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only
STARK SLE 1500 XXX CLA	Green	Green	Green	Orange	Green	Green	Green	Grey	Green	Green	Green	Grey
STARK SLE 2000 XXX CLA	Green	Yellow	Yellow	Grey	Yellow	Yellow	Yellow	Grey	Yellow	Orange	Orange	Grey
STARK SLE 4000 XXX CLA	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey

Tridonic TALEXXengine Stark SLE LED Modules					
Heatsink	Spotlight Cooler 60W				
SynJet	ZFlow 90				
SynJet Setting	PWM @100%	Mid	Standard	Silent	Heatsink Only
STARK SLE 1500 XXX CLA	Green	Green	Green	Green	Yellow
STARK SLE 2000 XXX CLA	Green	Green	Green	Green	Grey
STARK SLE 4000 XXX CLA	Yellow	Yellow	Orange	Orange	Grey



Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported

## Notes:

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.

# Nuventix SynJet® Coolers and Heatsinks for Tridonic TALEXEngine LED Modules

**Guide:**

- Please see the legend below for the ambient temperature rating of each solution.
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- For Nuventix part numbers, see page 4 of this guide.

Tridonic TALEXEngine Stark SLE LED Modules				
Heatsink	Spotlight Cooler 21W			
SynJet	ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only
STARK SLE 1500 XXX CLA	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
STARK SLE 2000 XXX CLA	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported
STARK SLE 4000 XXX CLA	Not Supported	Not Supported	Not Supported	Not Supported



Tridonic TALEXEngine Stark SLE LED Modules												
Heatsink	Par30 Cooler 40W				Par25 Cooler 32W				Par20 Cooler 24W			
SynJet	ZFlow 65				ZFlow 65				ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
STARK SLE 1500 XXX CLA	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported
STARK SLE 2000 XXX CLA	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 25C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
STARK SLE 4000 XXX CLA	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported

Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported



**Notes:**

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# Nuventix SynJet® Coolers and Heatsinks for Tridonic TALEXEngine LED Modules

## Guide:

- Please see the legend below for the ambient temperature rating of each solution.
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- For Nuventix part numbers, see the table below.

Tridonic TALEXEngine Stark DLE LED Modules								
Heatsink	Downlight Cooler 140, 48W				Downlight Cooler 120, 40W			
SynJet	ZFlow 100				ZFlow 100			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
STARK-DLE-1100-XXX-SEL	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient			
STARK-DLE-1100-XXX-CLA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient			
STARK-DLE-2000-XXX-SEL	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
STARK-DLE-2000-XXX-CLA	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported
STARK-DLE-3000-XXX-SEL	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
STARK-DLE-3000-XXX-CLA	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
STARK-DLE-1100-PRE	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient			
STARK-DLE-2000-PRE	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Not Supported



Legend
Supported up to 40C+ ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported

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## Nuventix Part Number Guide

Downlight Cooler 120, 40W	HSSLS-CALBL-005	Heatsink, 40W, Downlight Cooler 120, Philips DLM and Lexel, Stark DLE Black
Downlight Cooler 140, 48W	HSSLS-CALBL-003	Heatsink, 48W, Downlight Cooler 140, Philips DLM and Lexel, Stark DLE Black
Downlight Cooler 140, 48W	HSSLS-CALCL-008	Heatsink, 48W, Downlight Cooler 140, No Lower Fins, Philips DLM and Lexel, Stark DLE Silver
Par20 Cooler 24W	HP20S-CALBL-001	Heatsink, 24W, PAR20 Style, Configurable, Black
Par25 Cooler 32W	HP25S-CALBL-001	Heatsink, 32W, PAR25 Style, Configurable, Black
Par30 Cooler 40W	HP30S-CALBL-001	Heatsink, 40W, PAR30 Style, Configurable, Black
Spotlight Cooler 21W	HSSLS-CALCL-015	Heatsink, 21W, Spotlight Cooler, Zhaga, Tridonic, Matte Silver
Spotlight Cooler 31W	HSLCS-CALCL-015	Heatsink, 31W, Spotlight Cooler, Zhaga, Tridonic, Silver
Spotlight Cooler 34W	HSLCS-CALBL-018	Heatsink, 34W, Spotlight Cooler, Zhaga, Tridonic, Black
Spotlight Cooler 38W	HSLCS-CALBL-019	Heatsink, 38W, Spotlight Cooler, Zhaga, Tridonic, Black
Spotlight Cooler 60W	NX300105	Heatsink, 60W, Spotlight Cooler, Zhaga, Tridonic, AI, Black
SynJet ZFlow 65	SPARS-CM012-002	SynJet, ZFlow 65, Level Select, 12V
SynJet ZFlow 75	SSLCS-CM012-002	SynJet, ZFlow 75, Level Select, 12V
SynJet ZFlow 90	NX200102	SynJet, ZFlow 90, Level Select, 12V
SynJet ZFlow 100	SSSLS-CM012-017	SynJet, ZFlow 100, Level Select, 12V
Wire Harness	WALLS-C4150-001	SynJet Wire Harness, 4wire, 150mm
	WALLS-C4240-001	SynJet Wire Harness, 4wire, 240mm
	WALLS-C4370-001	SynJet Wire Harness, 4wire, 370mm
	WALLS-C4600-001	SynJet Wire Harness, 4wire, 600mm