Components

SKU	Part	Description	Package Quantity	EEC	Energy Consumption (kWh/1000h)
93011515	GEMM71-W1	Tetra® miniMAX Wet White 7100K	100 ft (30.48 ml/box (250 modules)	A++	0.356
93011516	GEMM50-W1	Tetra® miniMAX Wet Warm White 5000K	100 ft (30.48 ml/box (250 modules)	A++	0.356
93011517	GEMM41-W1	Tetra® miniMAX Wet Warm White 4100K	100 ft (30.48 ml/box (250 modules)	A++	0.356
93011518	GEMM32-W1	Tetra® miniMAX Wet Warm White 3200K	100 ft (30.48 ml/box (250 modules)	A++	0.356
13613	GEMM71-2	Tetra® miniMAX White 7100K	100 ft (30.48 ml/box (250 modules)	A++	0.356
13619	GEMM50-2	Tetra® miniMAX Warm White 5000K	100 ft (30.48 ml/box (250 modules)	A++	0.356
13620	GEMM41-2	Tetra® miniMAX Warm White 4100K	100 ft (30.48 ml/box (250 modules)	A++	0.356
13625	GEMM32-2	Tetra® miniMAX Warm White 3200K	100 ft (30.48 ml/box (250 modules)	A++	0.356
13614	GEMM71-2-CS1	Tetra® miniMAX White 7100K (6.6)	100 ft (30.48 ml/box (200 modules)	A++	0.356
93011542	GEMM50-2-CS1	Tetra® miniMAX Warm White 5000k (6.6)	100 ft (30.48 ml/box (200 modules)	A++	0.356
93011543	GEMM41-2-CS1	Tetra® miniMAX Warm White 4100K (6.6)	100 ft (30.48 ml/box (200 modules)	A++	0.356
93011544	GEMM32-2-CS1	Tetra® miniMAX Warm White 3200K (6.6)	100 ft (30.48 ml/box (200 modules)	A++	0.356
98922	GEMMRD-1	Tetra® miniMAX Red	100 ft (30.48 ml/box (250 modules)		
98919	GEMMBL-1	Tetra® miniMAX Blue	100 ft (30.48 ml/box (250 modules)		
98920	GEMMGL-1	Tetra® miniMAX Green	100 ft (30.48 ml/box (250 modules)		
98921	GEMMPO-1	Tetra® miniMAX Orange	100 ft (30.48 ml/box (250 modules)		
68347	9409	18 AWG Supply Wire (0.82 mm²)	500 ft /spool (152.4 m)		
98509	191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm²)	500/ PK		
98524	192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm²)	500/ PK		

Technical specifications

Color	Wavelength	Typical Brightness (lumens/module)	Typical Brightness (lumens/m)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading	Viewing Angle
Tetra miniMAX White Wet	7100K, 5000K	36	295	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Warm White Wet	4100K, 3200K	34, 30	279, 246	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX White	7100K, 5000K	36	295	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Warm White	4100K, 3200K	34, 30	279, 246	0.32	0.38	20.60 m (170 modules)	150
Tetra miniMAX Red	625nm	11	90	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Blue	467nm	8	66	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Green	530nm	24	197	0.39	0.47	18.18 m (150 modules)	150
Tetra miniMAX Orange	606nm	19	156	0.48	0.59	18.18 m (150 modules)	150

Specification Item	Specification
LEDs/ Module	3
Module/m	~8.2 / ~6.6. (CS1)
Cutting Resolution	Cut on wire between every module
Power Supply	GEPS12-20 Input: 90-264VAC; Output: 12VDC GEPS12-60-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 90-305VAC; Output: 12VDC
Maximum Supply Wire Limits	**60W, 80W, 100W, 180W** — **20W** — **Supply Wire Gauge** 15 ft. (4.6 m) — 30 ft. (9.1 m) — 18AWG/0.82mm² supply wire - 9409 23 ft. (7.0 m) — 16AWG/1.31mm² supply wire 38 ft. (11.6 m) — 14AWG/2.08mm² supply wire 65 ft. (19.8 m) — 12AWG/3.31mm² supply wire Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).
Operating Environment	-40 °C to + 60 °C
Module Dimensions (h x l x w) Wet	0.31 x 2.27 x 0.72 in (9.5 x 57.7x 18.2 mm)
Module Dimensions (h x l x w)	0.31 x 1.89 x 0.47 in (8 x 48 x 12 mm)
Sign Dimensions	For best results, recommended sign depth is 1.5 inches (38mm) or greater
Warranty	GE offers a limited system warranty of up to five (5) years
System Certifications	UL Recognized #E219167, UL Classified #E229508, CE, C-tick, RoHS, IP68 rated for dry, damp or wet location

GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this brochure are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted. Tetra® miniMAX Data Sheet – March 2015

Tetra®
miniMAX

LED Lighting System

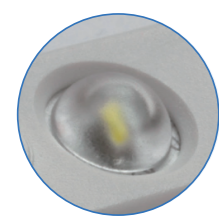Wet or dry—our **brightest** solution for **small** channel letters

Tetra® miniMAX
Maximized Output. Minimized Expense.

Tetra® miniMAX—the remarkable LED system designed for small channel letters as shallow as 38 mm in depth—is now **10%** brighter than our previous product. It delivers incredibly uniform light, installs easily and operates efficiently. Working closely with sign builders and owners, we've refined our design to improve performance while decreasing the amount of product required, further reducing installation and material costs. Our system can now operate 20,60 metres of product per 60W power supply (up from 18,18 metres in our previous design) and deliver **13%** greater loading for even better material and installation labor savings.
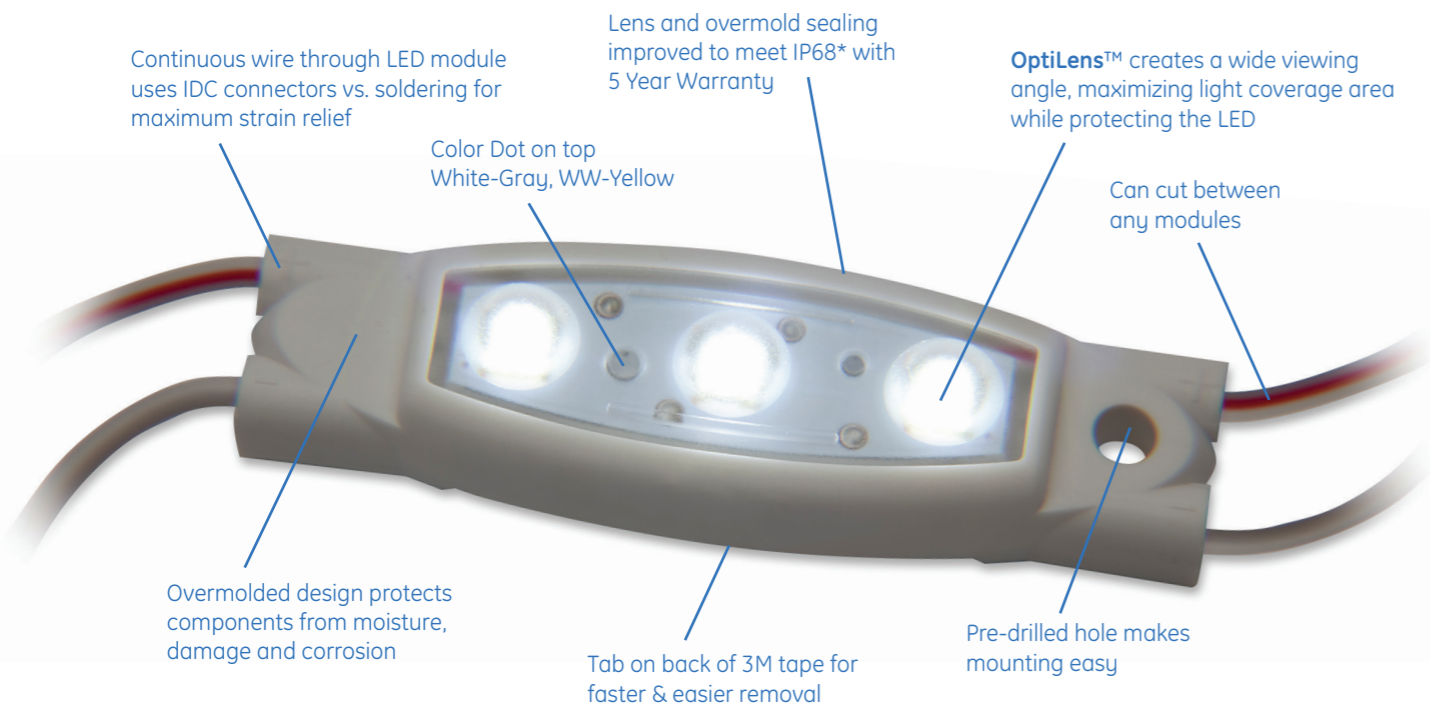
10% Brighter!

a product of
ecomagination™

Powerful OptiLens™

Tetra miniMAX features **OptiLens**™ a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with impressive uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.

New Tetra® miniMAX Wet Location Rated

IP 68* tested

Now there's a miniMAX solution for **wet locations** where saturation with water or other liquids is likely. It's all the same performance features of miniMAX—plus overmolded design that protects against water ingress, dust and damage and a special module top surface to eliminate water retention—no separate enclosure is required.

Continuous wire through LED module uses IDC connectors vs. soldering for maximum strain relief

Lens and overmold sealing improved to meet IP68* with 5 Year Warranty

OptiLens™ creates a wide viewing angle, maximizing light coverage area while protecting the LED

Color Dot on top White-Gray, WW-Yellow

Can cut between any modules

Overmolded design protects components from moisture, damage and corrosion

Tab on back of 3M tape for faster & easier removal

Pre-drilled hole makes mounting easy

*5m / 60 min (not for continuous operation under water)

Can cut product required almost in half

Many LED systems use about 13 LED modules in 2 rows to fill a capitol "T" channel letter that's 600 mm high.

Improved **Tetra miniMAX**, requires just 7 LED modules to fill the exact same letter (giving up some brightness) while providing outstanding uniformity. That's **46%** **fewer modules.**

Use one row, not two. **Tetra miniMAX** stretches stroke spacing to an impressive 178 mm in a 76 mm depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.

Total GE Reliability

To ensure every **Tetra miniMAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.