

GE  
Lighting

# Tetra<sup>®</sup> MAX

LED Lighting System

Our **brightest** solution for  
**medium** channel letters



imagination at work

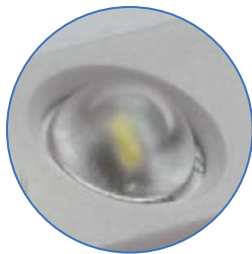
# Tetra<sup>®</sup> MAX

## Maximized Output. Minimized Expense.

Created specifically for medium channel letters the **Tetra MAX** LED system is **28%** brighter than our previous product, 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 reducing the amount of product required, further reducing installation and material costs.

**28% Brighter!**

### Powerful OptiLens<sup>™</sup>

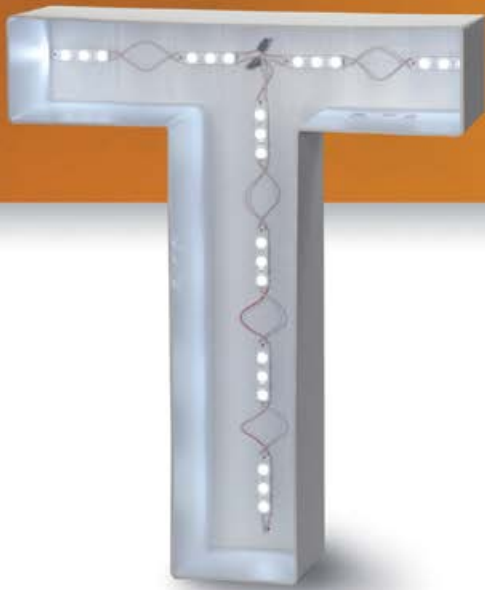


**Tetra MAX** features **OptiLens<sup>™</sup>** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with remarkable uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping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

### 6% Greater loading is a competitive advantage

Our system can now operate 64 feet of product per 60W power supply (up from 60 feet in our previous design) for even greater material and installation labor savings.





a product of  
**ecomagination™**

## Can cut product required almost in half

Many LED systems use about 15 LED modules in 2 rows to fill a capitol "T" channel letter that's 2.5 feet high.

Improved **Tetra MAX**, requires just 8 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 MAX** stretches stroke spacing to an impressive 9 inches in a 4-inch 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.



## Tetra® MAX High Output

**30% Brighter!**

When extreme brightness is desired, **Tetra MAX High Output** delivers with White and Red options. This super bright system is now **30%** brighter than our previous product.

## Total GE Reliability

To ensure every **Tetra MAX** 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.

## Components

SKU	Description	Package Quantity
GEMX71-2	Tetra MAX 7100K	100 ft (30.48 m)/box (200 modules)
GEMX50-2	Tetra MAX 5000K	100 ft (30.48 m)/box (200 modules)
GEMX41-2	Tetra MAX 4100K	100 ft (30.48 m)/box (200 modules)
GEMX32-2	Tetra MAX 3200K	100 ft (30.48 m)/box (200 modules)
GEMXH71-2	Tetra MAX High Output 7100K	100 ft (30.48 m)/box (200 modules)
GEMXH50-2	Tetra MAX High Output 5000K	100 ft (30.48 m)/box (200 modules)
GEMXH41-2	Tetra MAX High Output 4100K	100 ft (30.48 m)/box (200 modules)
GEMXH32-2	Tetra MAX High Output 3200K	100 ft (30.48 m)/box (200 modules)
GEMXHRD-1	Tetra MAX High Output Red	100 ft (30.48 m)/box (200 modules)
GEMXRD-1	Tetra MAX Red	100 ft (30.48 m)/box (200 modules)
GEMXGL-1	Tetra MAX Green	100 ft (30.48 m)/box (200 modules)
GEMXBL-1	Tetra MAX Blue	100 ft (30.48 m)/box (200 modules)
GEMXPO-1	Tetra MAX Orange	100 ft (30.48 m)/box (200 modules)
GEMXRC-1	Tetra MAX Red-Orange	100 ft (30.48 m)/box (200 modules)
GEMXYG-1	Tetra MAX Amber	100 ft (30.48 m)/box (200 modules)
9409	18 AWG Supply Wire (0.82 mm <sup>2</sup> )	500 ft /spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm <sup>2</sup> )	500/ PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm <sup>2</sup> )	500/ PK

## Technical Specifications

Color	Wavelength	Typical Brightness (lumens/module)	Typical Brightness (lumens/ft.)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading	Viewing Angle
Tetra MAX White	7100K, 5000K	52	105	0.46	0.54	64ft (128 modules)	150
Tetra MAX Warm White	4100K, 3200K	47, 43	95, 86	0.46	0.54	64ft (128 modules)	150
Tetra MAX High Output White	7100K, 5000K	82	165	0.72	0.85	40ft (80 modules)	150
Tetra MAX High Output Warm White	4100K, 3200K	75,68	150, 136	0.72	0.85	40ft (80 modules)	150
Tetra MAX High Output Red	625nm	16	31	0.41	0.49	71ft (142 modules)	150
Tetra MAX Red	625nm	14	27	0.48	0.59	60ft (120 modules)	150
Tetra MAX Blue	467nm	10	20	0.48	0.59	60ft (120 modules)	150
Tetra MAX Green	530nm	30	60	0.48	0.59	60ft (120 modules)	150
Tetra MAX Orange	606nm	13	25	0.36	0.44	80ft (160 modules)	150
Tetra MAX Red-Orange	618nm	12	23	0.29	0.36	100ft (200 modules)	150
Tetra MAX Amber	589nm	16	21	0.54	0.66	53ft (106 modules)	150

Specification Item	Specification															
Cutting Resolution	Cut on wire between every module															
Power Supply	GEPS12-20 Input: 90-264VAC; Output: 12VDC GEPS12-60-NA Input: 108-305VAC; 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	<table border="1"> <thead> <tr> <th>60W,80W, 100W,180W</th> <th>20W</th> <th>Supply Wire Gauge</th> </tr> </thead> <tbody> <tr> <td>20 ft. (6.1 m)</td> <td>120 ft. (36.6 m)</td> <td>18AWG/0.82mm<sup>2</sup> supply wire - 9409</td> </tr> <tr> <td>25 ft. (7.6 m)</td> <td></td> <td>16AWG/1.31mm<sup>2</sup> supply wire</td> </tr> <tr> <td>35 ft. (10.6 m)</td> <td></td> <td>14AWG/2.08mm<sup>2</sup> supply wire</td> </tr> <tr> <td>40 ft. (12.1 m)</td> <td></td> <td>12AWG/3.31mm<sup>2</sup> supply wire</td> </tr> </tbody> </table> <p>Wiring to be installed in accordance with Article 725 of the National Electric Code (NEC).</p>	60W,80W, 100W,180W	20W	Supply Wire Gauge	20 ft. (6.1 m)	120 ft. (36.6 m)	18AWG/0.82mm <sup>2</sup> supply wire - 9409	25 ft. (7.6 m)		16AWG/1.31mm <sup>2</sup> supply wire	35 ft. (10.6 m)		14AWG/2.08mm <sup>2</sup> supply wire	40 ft. (12.1 m)		12AWG/3.31mm <sup>2</sup> supply wire
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Operating Environment	-40 °C to +60 °C															
Module Dimensions (h x l x w)	Tetra PowerStrip: 0.45 x 1.14 x 9.20 in.      Tetra PowerStrip High Output: 0.47 x 9.29 x 1.12 in.															
Sign Dimensions	For best results, recommended sign depth is 5 inches (127mm) or greater      For best results, recommended sign depth is 10 inches (254mm) or greater															
Warranty	GE offers a limited system warranty of up to five (5) years															
System Certifications	UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS IP66 rated: separate enclosure required, damp location rated															



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