



ITE Compliant LED Signal Modules



Designed in the U.S.A
Meets Buy American provision under the
American Recovery and Reinvestment Act 2009
For projects requiring Buy American provision certification, consult factory for
additional information and special ordering details

ITE Compliant LED Traffic Signal Module Performance Specifications

All LED Ball Signal Modules (8 inch (200mm) and 12 inch (300mm))

shall be fully compliant to the ITE VTC SH LED Circular Supplement specifications dated and adopted June 27, 2005. Compliance to the ITE VTC SH-2 Interim Purchase Specification is not sufficient, and will not substitute for compliance to the ITE VTC SH LED Circular Supplement specifications. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek, that certify full compliance of all LED ball signal modules to the entire ITE specification. These tests should include but not be limited to the luminous intensity measurements and requirements outlined in the ITE specification sections 6.4.4 through 6.4.4.4.2 (25°C and 74°C / 49°C). Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Figure 2, Design Qualification Testing Flow Chart must be included without any exceptions, changes or omissions. The manufacturer must also submit a data sheet showing the exact catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number.

To ensure optimal quality of illumination; uniformity; reliability; and appearance, all ball traffic signal modules shall utilize Hi-flux LEDs rated at 1-watt or higher, as their source of illumination. To ensure competency of design and manufacturing, manufacturers of ball, arrow, and pedestrian signal modules shall have a minimum of 7 years of experience in utilizing Hi-flux LEDs rated at 1-watt or higher, as the source of illumination in their ball traffic signal modules. Additionally, manufacturers must have utilized in excess of 20 million Hi-flux LEDs in their LED traffic signal modules during the most recent 10 year period.



All LED 12 inch (300 mm) Arrow Signal Modules

shall be fully compliant to the "Omni-directional" specifications of the ITE VTC SH - LED Vehicle Arrow Traffic Signal Supplement adopted July 1, 2007. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek that certify full compliance of all LED Arrow signal modules. These tests should include but not be limited to the luminous intensity measurements and requirements outlined in the ITE specification sections 6.4.4 through 6.4.4.4.2 (25°C and 74°C / 49°C). Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Attachment 1, "Design Qualification Testing Flow Chart" must be included without any exceptions, changes or omissions. The manufacturer must also submit a data sheet showing the exact catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number.

All LED 16x18 Countdown Pedestrian Signal Modules

shall be fully compliant to the ITE PCSI Part-2: LED Pedestrian Traffic Signal Modules specifications adopted August 4, 2010 or the latest adopted version as listed on the ITE website at time of bid. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek that certify full compliance of LED signal modules, to these specifications. Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Attachment 2, "Design Qualification Testing Flow Chart" must be included without any exceptions, changes or omissions. The manufacturer must also submit a data sheet showing the exact catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number. Combination hand/person pedestrian signal modules shall incorporate separate power supplies for the hand and the person icons.

In addition to, and in excess of the above applicable ITE specification compliance, the on-board circuitry of all LED traffic signal modules shall include voltage surge protection, to withstand high-repetition noise transients and low-repetition high-energy transients as stated in Section 2.1.8, NEMA Standard TS 2-2003. In addition, the module shall comply with the following standards: IEC 1000-4-5 at 3kV with a 2 ohm source impedance, ANSI/IEEE C62, 41-2002; IEC 61000-4-12 (6kV, 200A, 100kHz ring wave).

Warranty:

Manufacturer shall provide at time of bid, a written warranty which provides for repair or replacement of modules that fail to function as intended due to workmanship or material defects within the first 60 months from date of delivery. Modules which exhibit luminous intensities less than the minimum as specified in the ITE specifications as indicated above, within the first 60 months from date of delivery shall be replaced or repaired.

Notes:

- CSA approved to the following applicable requirements:
- CSA Standard C22.2 No. 9.0-96 General Requirements for Luminaires
- CSA Std. No. C22.2 No. 250.0-04 Luminaires
- UL Std. No. 1598-2004 (May 2006) Luminaires



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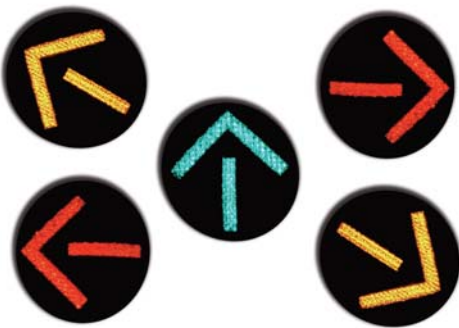
Uniform Appearance LED Traffic Signal Modules



- ▲ *Fully compliant to ITE VTCSH-LED Circular Signal Supplement dated 6/27/2005
- ▲ Industry's lowest power for all colors
- ▲ Meets or exceeds ITE intensity, color and uniformity specification, including 49°C / 74°C requirements
- ▲ Temperature compensated power supplies for longer LED life
- ▲ Uniform appearance
- ▲ Expanded view radiation pattern suitable for span wire and steep grade applications
- ▲ Transient suppression exceeds ITE and NEMA specifications (Up to 6KV ring wave)
- ▲ Manufactured with anti-capillary wires
- ▲ Conformal coated power supply
- ▲ Secondary lens treatment for abrasion resistance
- ▲ Patent No. 7,281,818 and other patents pending
- ▲ Intertek/ETL certified and listed on ETL certification program
- ▲ All units operate at 80-135VAC RMS, 60±3Hz

Part Number	Color	Lens Type	Dominant Wavelength (nm)	Typical Wattage at 25°C	Peak Minimum Maintained Luminous Intensity (cd)	*Meets ITE VTCSH LED Circular Signal Supplement	CSA Approved	Size (in)
433-1110-003XL	Red	Tinted	625	6	165	✓	✓	8
433-1170-003XL	Red	Clear	625	6	165	✓	✓	8
433-3130-901XL	Yellow	Tinted	590	7	410	✓	✓	8
433-3170-901XL	Yellow	Clear	590	7	410	✓	✓	8
433-2120-001XL	Green	Tinted	500	8	215	✓	✓	8
433-2170-001XL	Green	Clear	500	8	215	✓	✓	8
433-1210-003XL	Red	Tinted	625	6	365	✓	✓	12
433-1270-003XL	Red	Clear	625	6	365	✓	✓	12
433-3230-901XL	Yellow	Tinted	590	12	910	✓	✓	12
433-3270-901XL	Yellow	Clear	590	12	910	✓	✓	12
433-2220-001XL	Green	Tinted	500	7	475	✓	✓	12
433-2270-001XL	Green	Clear	500	7	475	✓	✓	12

OMNI-DIRECTIONAL, UNIFORM APPEARANCE LED ARROWS



- ▲ *Fully compliant to ITE VTCSH-LED Vehicle Arrow Supplement dated 7/01/2007
- ▲ Allows for mounting in any orientation in the signal head
- ▲ Industry's lowest power for all colors
- ▲ Meets or exceeds ITE intensity, color and uniformity specification, including 49°C / 74°C requirements
- ▲ Temperature compensated power supplies for longer LED life
- ▲ Uniform appearance
- ▲ Transient suppression exceeds ITE and NEMA specifications (Up to 6KV ring wave)
- ▲ Manufactured with anti-capillary wires
- ▲ Conformal coated power supply
- ▲ Secondary lens treatment for abrasion resistance
- ▲ Intertek/ETL certified and listed on ETL certification program
- ▲ All units operate at 80-135VAC RMS, 60±3Hz

Part Number	Color	Lens Type	Typical Wattage at 25°C	Dominant Wavelength (nm)	Peak Minimum Maintained Luminous Intensity (cd)	*Meets ITE Spec	CSA Approved
432-1314-001XOD	Red	Tinted	6	628	56.8	✓	✓
432-1374-001XOD	Red	Clear	6	628	56.8	✓	✓
431-3334-901XOD	Yellow	Tinted	6	590	141.6	✓	✓
431-3374-901XOD	Yellow	Clear	6	590	141.6	✓	✓
432-2324-001XOD	Green	Tinted	6	500	73.9	✓	✓
432-2374-001XOD	Green	Clear	6	500	73.9	✓	✓

Uniform Appearance Hand and Person Pedestrian Signals



- ▲ *Fully compliant to ITE PTCI Part 2 LED Pedestrian Traffic Signal Module Specification adopted 3/9/04
- ▲ Meets / exceeds ITE uniformity ratio of not more than 1 to 5 between the max and min luminance values as measured in (.5") dia spots
- ▲ Manufactured with anti-capillary wires
- ▲ Conformal coated power supply
- ▲ Fuse and transient suppressor incorporated for superior line and load protection
- ▲ Independent dedicated power supplies for added safety and reliability
- ▲ Intertek/ETL certified and listed on ETL certification program
- ▲ Transient suppression exceeds ITE and NEMA specifications (Up to 6KV ring wave)
- ▲ All units operate at 80-135VAC RMS, 60±3Hz

Part Number	Size	Description	Typical Wattage @ 25°C		Min. Luminance (cd/m ²)		*Meets ITE Spec	CSA Approved
			Hand	Person	Hand	Person		
430-6450-001X	16 x 18	Side-by-side Hand and Person	8	7	1,400	2,200	✓	✓
430-6472-001X	16 x 18	Overlay Hand and Person	8	6	1,400	2,200	✓	✓
430-5770-001X	12 x 12	Hand only	8	N/A	1,400	N/A	✓	✓
430-7771-001X	12 x 12	Person only	N/A	7	N/A	2,200	✓	✓
430-6772-001X	12 x 12	Overlay Hand and Person	8	6	1,400	2,200	✓	✓
430-5570-001X	9 x 9	Hand only	6	N/A	1,400	N/A	✓	
430-7570-001X	9 x 9	Person only	N/A	6	N/A	2,200	✓	

Uniform Appearance Countdown Pedestrian Signals



- ▲ *Fully compliant to ITE PTCI Part 2 LED Pedestrian Traffic Signal Module Specification adopted 8/04/2010
- ▲ MUTCD compliant for countdown applications
- ▲ Full preemption compatibility
- ▲ Up to 8 units can be connected in parallel without affecting of the monitoring of the Hand/Person
- ▲ Manufactured with anti-capillary wires
- ▲ Three (3) Independent dedicated power supplies for added safety and reliability
- ▲ Intertek/ETL certified and listed on ETL certification program
- ▲ Reduced off state icon visibility results in increased pedestrian safety by eliminating the potential to misinterpret the signal
- ▲ Conformal coated power supply
- ▲ New improved one piece housing design
- ▲ Improved optical design to provide superior uniform appearance of the icons
- ▲ Transient suppression exceeds ITE and NEMA specifications (Up to 6KV ring wave)
- ▲ All units operate at 80-135VAC RMS, 60±3Hz

Part Number	Housing Size	Symbol Color			Typical Wattage @ 25°C			Min. Luminance (cd/m ²)			*Meets ITE Spec	CSA Approved
		Countdown	Hand	Person	Countdown	Hand	Person	Countdown	Hand	Person		
430-6479-001X	16 x 18	Portland Orange	Portland Orange	Lunar White	8	11	10	1,400	1,400	2,200	✓	✓
430-7773-001X	12 x 12	Portland Orange	N/A	N/A	5	N/A	N/A	1,400	N/A	N/A		✓

Special Applications: Upon customer request, above units are available with option to countdown the clearance mode and the walk mode. Add suffix "W" to above part numbers.

IMPORTANT NOTE: MUTCD DOES NOT recommend the use of a countdown timer in the "walk" mode

Dialight reserves the right to make changes at any time in order to supply the best product possible.

The most current version of this document will always be available at:

www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/ITE_Spec_Brochure.pdf

ITE_Spec_Brochure_L



Поставка электронных компонентов

Юридический адрес организации:

198099, г. Санкт-Петербург, ул. Калинина, дом 2, кор. 4, лит А.

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КПП 780501001

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Электронная почта: sales@timechips.ru

Сайт: timechips.ru

Информационное письмо

Компания «ТаймЧипс» - одна из наиболее динамично развивающихся компаний в сфере поставок электронных компонентов. Мы поставляем широкую номенклатуру электронных компонентов отечественных и импортных производителей, как напрямую, так и с крупных мировых складов, позволяющих охватить выборочную номенклатуру более 300 брендов, а также специализируемся на поставках дисплеев и является официальным дистрибьютором компании Shenzhen Startek Electronic Technology Co, на территории Российской Федерации.

Наличие собственной логистики позволяет в кратчайшие сроки доставлять товар нашим клиентам. В нашей компании имеется Конструкторский отдел, где наши специалисты проводят технические консультации клиентов, квалифицированную поддержку и помощь российским разработчикам. Осуществляем Поставки импортной продукции под контролем ВП МО РФ, на предприятия Оборонно-промышленного комплекса России. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001-2011.

Благодаря нацеленности на результат, мы уверенно занимаем новые позиции на рынке, заинтересовывая Клиента не только актуальными ценами и гибким подходом, но и постоянным вниманием.

Миссия – обеспечение долгосрочного и взаимовыгодного партнерства с клиентами.

Наша цель – Обеспечение клиентам самого широкого ассортимента электронных компонентов и бесперебойности поставок.

Мы - это развитие! Мы задаем темп! Мы разные, но вместе! Мы работаем для вас!

Так же имеем прямые поставки от производителей:

TAI-SAW Пав-компоненты (www.taisaw.com)

TRANSCOM СВЧ-компоненты (www.transcominc.com.tw)

Mini Circuits ВЧ-СВЧ-компоненты (minicircuits.com)

SAMTEC- разъемы (www.samtec.com)

4Star Разъемы РЧ (Даташиты по продукции 4Star, которые Вы сможете загрузить по этой ссылке: <https://yadi.sk/i/tPjnmGGrpmbYj>)

ULNION Преобразователи напряжения (converterdc.com/)

Отличные рекомендации на рынке, уверенность в качестве поставляемой продукции делают нас надежными партнерами для наших клиентов.

«ТаймЧипс» - это:

- Гарантия качества поставляемой продукции;
- Широкий ассортимент;
- Минимальные сроки поставок;
- Техническая поддержка;
- Подбор комплектации;
- Индивидуальный подход;
- Гибкие цены.

Модули, микросхемы, пассивные компоненты, Xilinx (XC), Altera (EP,EPF, EPM) и силовая электроника – это наши ведущие позиции, на поставку которых мы гарантированно дадим Вам самые выгодные предложения!

В структуру компании так же входит конструкторский отдел, который помогает разработчикам и конструкторам в решении следующих задач:

- Оценка стоимости проекта по компонентам;
- Подбор оптимального решения при выборе компонента;
- Подбор аналогов;
- Техническая поддержка;
- Консультации у производителей;
- Поставка прототипов;

С Уважением, Чернов Павел.

Руководитель отдела продаж ООО "ТАЙМЧИПС"

Официальный дистрибьютор Shenzhen Startek Electronic Technology Co.,Ltd в России (USB Display Modules , LED Displays, Serial Modules).

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