



## Avago LED Lamps Support European Vertical Message Sign Regulation EN 12966-1

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### Red and Amber Lamps with 15°/30° Viewing Angle

SAN JOSE, Calif. & SINGAPORE, Jun 21, 2010 (BUSINESS WIRE) --Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced its support of European Standard EN 12966-1 for variable message traffic signs with new 5mm extra high brightness LED lamps.

Avago's new LED products to support the variable message traffic sign requirements for 15° and 30° viewing angles are the HLMP-Ex1A/1B-xxxDV (15°) and HLMP-Ex3A/3B-xxxDV (30°). These 5 mm extra bright LEDs have minimum luminous intensity ratings of 12,000 mcd (15° LEDs) and 5,500 mcd (30° LEDs) and are available in red and amber colors.

The visual requirements of signs set the viewing angle of the LEDs. Signs installed on highways, for example, require bright LEDs with a narrow beam width, but in cities with a requirement for short distance legibility a wide beam width LED is usually required.

Outdoor message signs must typically operate for over ten years in a harsh, corrosive, and exposed working environment. Avago's new 15 and 30 degree viewing angle lamps are manufactured for outdoor signal and sign applications. The maximum LED junction temperature limit of +130° C enables high temperature operation in bright sunlight conditions. The lamp epoxy uses UV inhibitors to reduce the effects of long term exposure to direct sunlight.

Applications for LED lamps in road equipment and signage include:

- Traffic management
  - Traffic signals
  - Pedestrian signals
  - Work zone warning lights
  - Variable message signs
- Solar powered signs
- Commercial outdoor advertising
  - Signs
  - Marquees

The new 15° and 30 ° viewing angle LED lamps, which are available now for production orders, are lead-free and RoHS-6 compliant.

#### [About Avago Technologies](#)

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back 40 years to its Hewlett-Packard roots. Information about Avago is available on the Web at [www.avagotech.com](http://www.avagotech.com)

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#### [Safe Harbor Statement](#)

This announcement and supporting materials may contain forward-looking statements which address our expected future business and financial performance. These forward looking statements are based on current expectations, estimates, forecasts and projections of future Company or industry performance based on management's judgment, beliefs, current trends and market conditions, and involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. Accordingly, we caution you not to place undue reliance on these statements. Avago Technologies Limited's Quarterly Report on Form 10-Q, filed with the U.S. Securities and Exchange Commission ("SEC") and other filings with the SEC (which you may obtain for free at the SEC's website at <http://www.sec.gov>) discuss some of the important risk factors that may affect our business, results of operations, and financial condition.

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