

The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Test Equipment Applications**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for **Test Equipment Applications**

Electronic test equipment ranges from the very simple and inexpensive, such as a test light made by a large number of companies to extremely complex and sophisticated Automatic Test Equipment (ATE) which has very small number of players that are tied to the very volatile semiconductor capital equipment acquisition cycles.

Whether the challenge is extending battery life, boosting display visibility or improving data input features; chances are you'll find an Avago Technologies component that's ideal for the job.



7.6/10/13mm Seven Segment Displays

The 10 mm (0.4 inch) three digit slim font seven segment displays incorporate a new slim font character design with specially mitered segments to give a fuller appearance to the illuminated character. The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet).

Featured Products

- 10 mm three digit slim font with 2-colons seven segment displays
- 4 digit seven segment display
- 10mm and 13mm slim font seven segment displays
- 7.6mm Micro-Bright seven segment displays

Smart Displays - Serial Interface

This product is a high performance, easy to use dot matrix display driven by on-board CMOS IC allowing direct interface with a microprocessor with no additional interface components. The 5 x 7 pixel format allows the user great freedom to generate user-defined characters. This display is stackable in the x-and y-directions, making it ideal for high character count displays with a minimum of data lines.

Featured Products

- High brightness and high performance CMOS 5 x 7 alphanumeric displays





Optocouplers – Plastic

Avago's optocouplers provide low power and multi-channels isolation solution without compromising the high voltage insulation and noise isolation solution performance. The optocouplers support wide temperature and wide supply voltage range, suitable for extreme environment. They allow high speed data transmission (up to 50MBd) with low propagation delay (<22ns) and pulse width distortion (<2ns) performance.

Featured Products

- Very high speed logic gate optocoupler
- Multi-Channel and Bi-Directional, 15 MBd (typ) Digital Logic Gate Optocoupler
- Ultra low-power CMOS optocouplers

Sample Handling and Positioning Optical Encoders

Avago offers a broad range of optical encoders including absolute, incremental and magnetic versions featuring

- Single and multi-turn versions
- A variety of resolutions
- Transmissive and reflective versions

Featured Products

- Reflective optical encoders
- Multi-turn encoders
- Single-turn absolute encoders
- Incremental encoders and code wheels



Rotary Switches

The HRPG series is a family of miniature panel mount optical encoders, also known as Rotary Pulse Generators (RPG) and digital potentiometers. The HRPG series is designed to be mounted on a front panel and used as a rotary, data-entry device.

Featured Products

- Miniature panel mount optical encoders

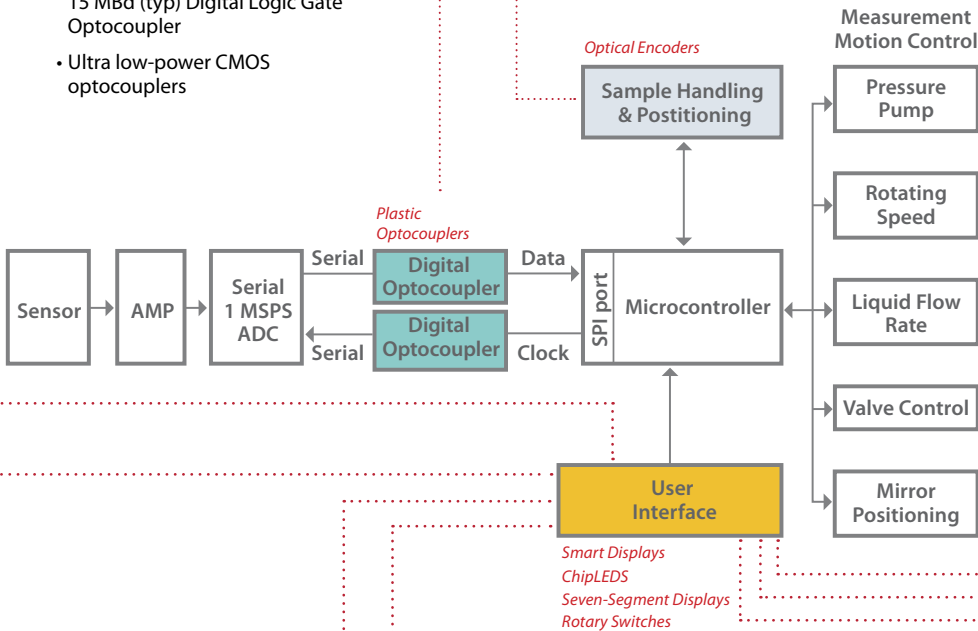


ChipLEDs for LCD Status Backlighting & Status Indicators

Avago Technologies offers an extensive range of high quality chipLEDs which are small in size, highly efficient and low power consumption; to meet demands for virtually any surface mount lighting requirement.

Featured Products

- Surface-mount ChipLEDs – 0603 (1.6 x 0.8mm), blue & green, 0805 (2.0 x 1.2 mm), 1206 (3.2 x 1.6mm), right angle, reverse mount, multi-color, bi-color surface mount chipLEDs.



14.2mm Seven Segment Displays

The 14.2 mm (0.56 inch) LED seven segment displays are designed for viewing distances up to 7 metres (23 feet). They feature industry-standard size and pinout, wide viewing angle, high light output and are excellent for long digit string multiplexing.

Featured Products

- Single and dual digit displays.

Smart Displays - Parallel Interface, 4 Characters

These 4-character 5 x 7 dot matrix displays are driven by an on-board CMOS ASCII decoder and driver IC. They have fast setup and hold times that makes it easy to interface them to a microprocessor.

Featured Products

- Four character smart 5 x 7 alphanumeric displays



Smart Displays - Parallel Interface, Single Character

These displays offer a 7.4mm dot matrix character and on-board IC with data memory latch/ decoder and LED drivers in a glass/ceramic package.

Featured Products

- Glass/ceramic numeric and hexadecimal displays
- Hexadecimal and numeric displays



Your Imagination. Our Innovation



Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve three primary target markets: wireless communications, wired infrastructure, and industrial and other. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots.

Avago products serve three diverse end markets

Wireless Communications serving the smartphone/handset and Base Station infrastructure markets with leading-edge products that include:

- Power Amplifiers
- Front End Modules
- Film Bulk Acoustic Resonator (FBAR) Filters
- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with products that include:

- 168Gb Parallel Optic Arrays
- 28Gb SerDes ASICs in 28nm
- Storage Fibre Channel Transceivers
- QSFP+/SFP+ Ethernet Transceivers

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter system, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Inverters
- Isolation and Digital Optocouplers
- Motion Control Optical & Magnetic Encoders
- Polymer Optical Fiber
- Indicator and Display LEDs



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