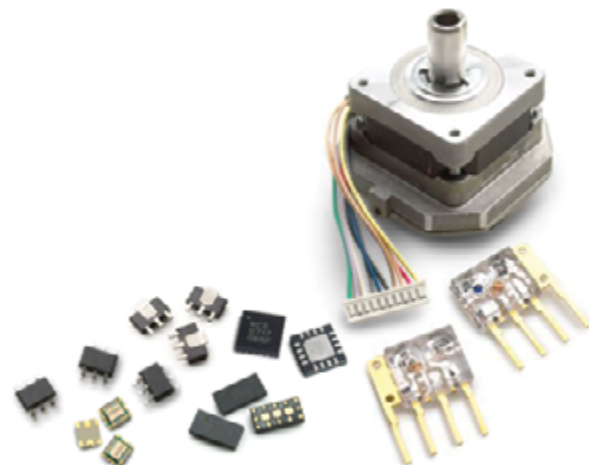


# The Avago Advantage



Applications Solutions

## Avago Technologies Solutions for **Automotive Infotainment & Communications**



Your Imagination, Our Innovation  
*Sense • Illuminate • Connect*

## Avago Technologies Solutions for **Automotive Infotainment & Communications**

Avago Technologies products can be found in a number of automotive infotainment applications including GPS/Glonass navigation, keyless entry, and vehicle communications systems such as MOST fiber optic based networks.

### GPS/Glonass Navigation

Avago Technologies products are used in navigation and entertainment systems including GPS/Glonass, backlighting for LCD and switches, user input devices, and automotive fiber optic networking such as MOST.

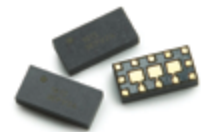


### Ambient Light Sensors

The APDS-930x is a low-voltage digital ambient light photo sensor that converts light intensity to digital signal output capable of direct I2C interface. The sensor comes in a miniature chipLED lead free surface mount package whose spectral response is close to the CIE standard photopic observer. It is ideal for applications in which the measurement of ambient light is used to control display backlighting.

#### **Featured Products**

- Miniature surface mount ambient light photo sensors

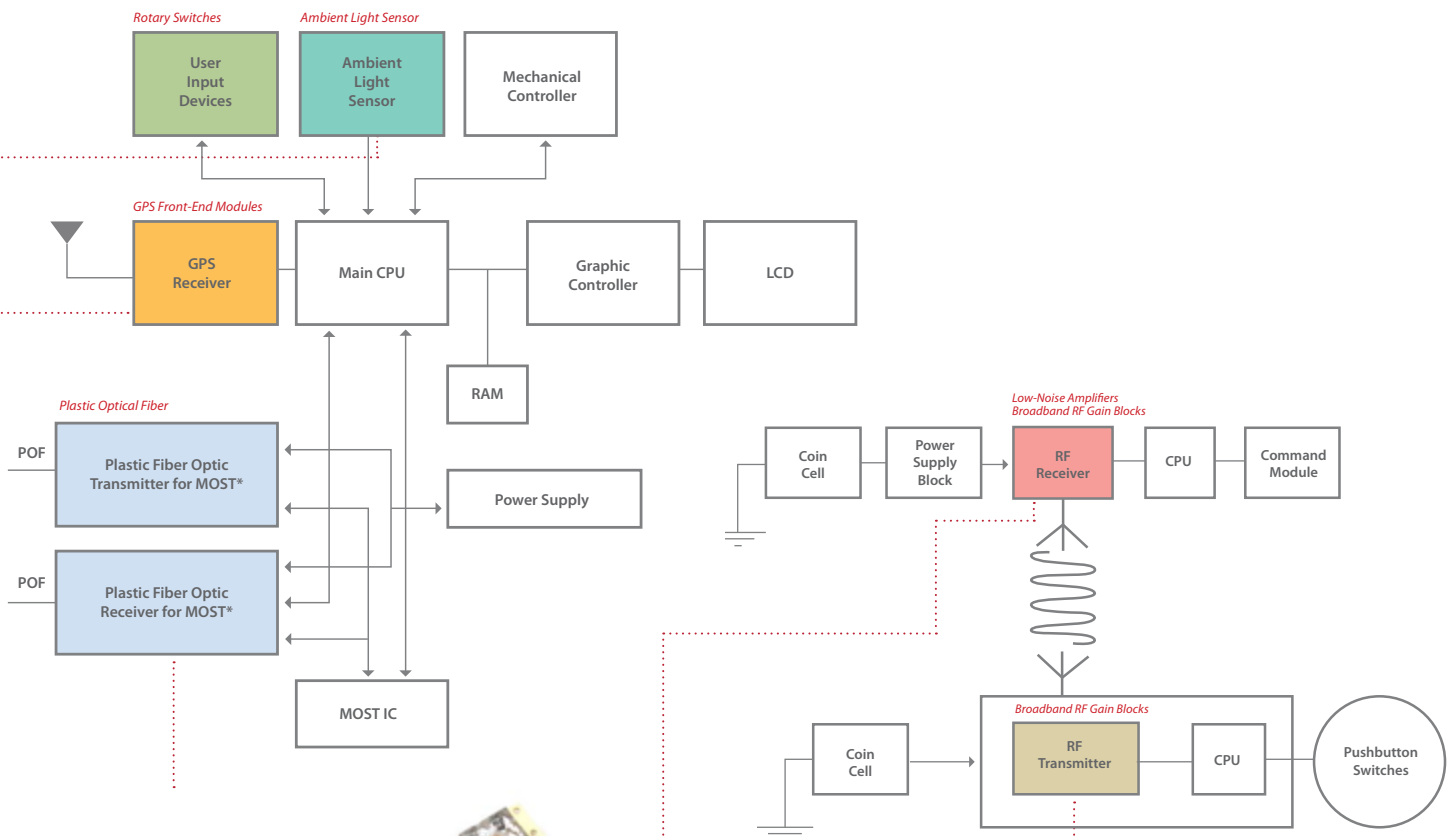


### GPS/Glonass Front-End Modules for GPS/Glonass Receiver

Avago Technologies integrated GPS/Glonass amplifier/front-end modules make it easy to integrate GPS/Glonass capability into any electronic system.

#### **Featured Products**

- GPS/Glonass low-noise amplifier/front-end module



### Automotive Plastic Optical Fiber (POF) for MOST

MOST (Media Oriented Systems Transport) transmitters and receivers are high-end POF (Plastic Optical Fiber) components for in-car entertainment and information systems. Avago is the leading provider of industrial fiber optics products that support 3.3V and 5V applications and are suitable for automotive applications due to their EMI immunity. Our MOST compliant transmitters and receivers are compatible with established manufacturing processes and include traceability information on each individual part.

#### Featured Products

- 3.3 and 5V 25MBit/s MOST transmitter/receiver with driver IC in CAI housing
- 3.3 and 5V 25MBit/s MOST transmitter/ receiver with driver IC in clear mold housing
- 150MBit/s transmitter with digital driver IC and LVDS in
- 150MBit/s receiver with digital amplifier and LVDS out



### Keyless Entry

Avago offers many general purpose RF blocks suitable for wireless systems such as keyless entry. These include Low Noise Amplifiers (LNAs), Gain Blocks, and Power Amplifiers.

### Low-Noise Amplifiers

Avago Low Noise Amplifiers (LNAs) have an ultra-low noise figure together with superior linearity performance. They deliver uniformly high gain across a wide frequency range, making them suitable for design platforms supporting multiple frequencies.

#### Featured Products

- Ultra Low Noise Active Bias LNA
- Low Noise E-pHEMT
- High Linearity E-pHEMT
- Dual Stage High Gain & High Linearity LNA
- Ultra Low Noise Match Pair Balance LNA



### Broadband RF Gain Blocks

Avago gain blocks deliver high linearity and very low power consumption together with superior gain flatness. They have consistent performance across major cellular frequency bands for common platform design and come in industry-standard SOT-89 & SC70 packages.

#### Featured Products

- Broad band High Linearity 0.1W and 0.25W Gain Blocks
- High Gain & High Linearity 0.1W, 0.25W and 0.5W Gain Blocks
- Low Cost & High Performance InGaP HBT SC70 Gain Blocks
- Low Cost & High Performance InGaP HBT SOT-89 Gain Blocks
- Legacy Silicon HP25 Gain Blocks



# 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



Contact us for your design needs at: [www.avagotech.com](http://www.avagotech.com)

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