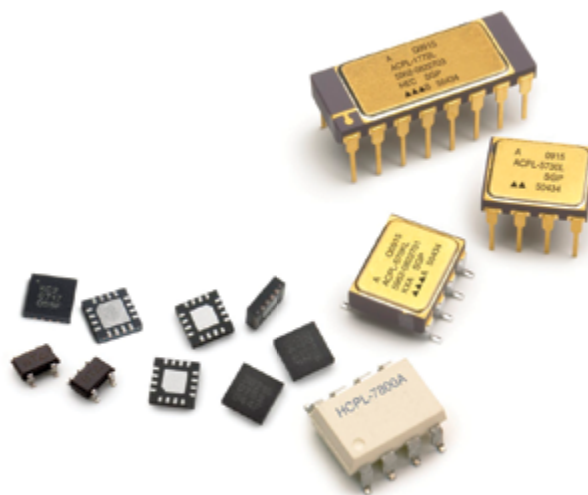


The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Secure Communications Systems**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for Secure Communications Systems

Secure communications systems incorporate many functions in order to do the advanced digital signal processing used and to access different RF frequency bands.

Avago offers several types of products that are suitable for analog signal input/output isolation, display drivers, and power supply functions as well as RF and microwave components for commonly used frequency bands in the transmit, receive, and detector stages.

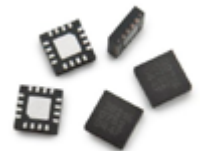


Low-Noise Amplifiers

Avago Low Noise Amplifiers (LNAs) offer an ultra-low noise figure together with superior linearity performance. They uniformly deliver high gain across major frequency bands suitable for secure communications system design.

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



High Linearity Driver Amps

Avago driver amps have very high linearity and low power consumption. They are easy-to-use with pre-matched and fully matched designs. They deliver uniformly high gain across major frequency bands suitable for common platform radar system design.

Featured Products

- High Linearity 0.5W Driver Amp
- High Linearity 1W Driver Amp
- High Linearity 2W Driver Amp
- High Linear Power Amplifier (700-800MHz & 2300-2700MHz)

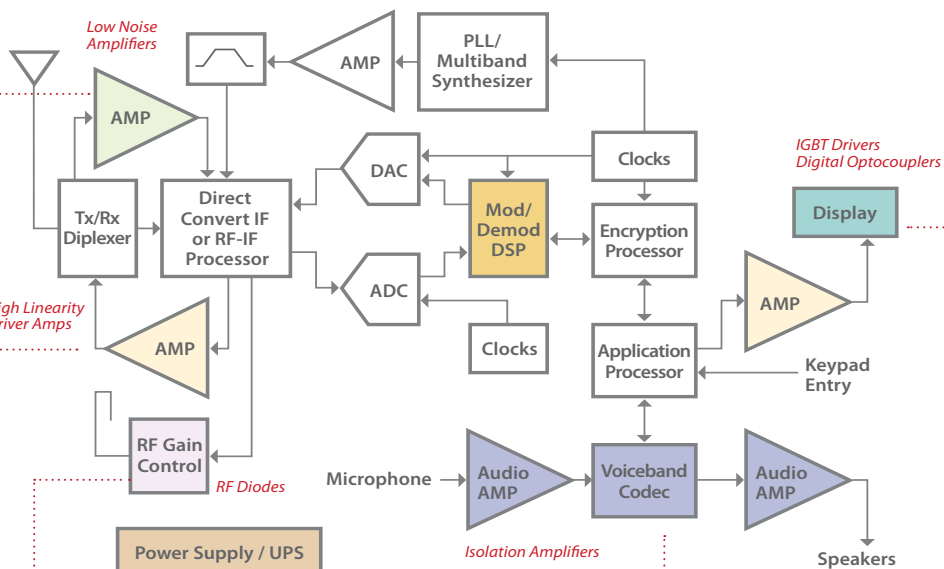


Digital Optocouplers

Avago hermetic digital optocouplers provide low power, multi-channels and wide speed portfolio digital isolation without compromising on high voltage insulation and noise isolation performance. They are available in commercial grade and MIL-STD, DSCC certified versions. Faster versions are suitable for display scan drivers, while other versions can be used in AC-DC, DC-DC, or UPS power supply functions.

Featured Products

- 20MBd hermetically sealed, very high speed logic gate optocouplers
- 10MBd hermetically sealed, high speed, high CMR, logic gate optocouplers
- 10MBd, 3.3V, hermetically sealed, high speed, high CMR, logic gate optocouplers
- 700Kbd hermetically sealed, transistor output optocouplers
- 100Kbd hermetically sealed, low IF, wide Vcc, high gain optocouplers



RF Diodes

Avago Technologies offers a large RF diode portfolio that includes PIN and Schottky diodes for a wide variety of attenuator, switching, limiter and detector applications in WLAN, WiMAX, infrastructure, handset, SatCom (LNB/DBS-CATV), automotive, military, test & measurement, metering, medical, and RFID products.

Featured Products

- PIN Diode series for attenuator application
- PIN Diodes for switching applications
- PIN Diode series for limiter applications
- Schottky Diode for detector applications

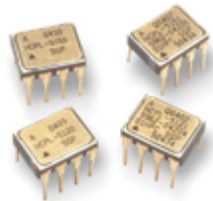


IGBT Gate Drivers

Avago hermetic gate drive optocouplers provide isolated high current gate drivers for IGBTs and MOSFETs. These gate drive optocouplers come with high output current of 2.5A, and are available in commercial grade and MIL-STD, DSCC-certified versions. They can be used in different elements of AC-DC, DC-DC, or UPS power supplies, or as sustain drivers in a display.

Featured Products

- 2.0 Amp output current, hermetically sealed, IGBT/MOSFET Gate Driver
- 2.0 Amp Output Current, hermetically sealed, Gate Driver
- 0.5 Amp output current, hermetically sealed, IGBT/MOSFET Gate Driver
- 2.0 Amp Output Current, hermetically sealed, Gate Driver



Isolation Amplifiers

Avago hermetic isolation amplifier optocouplers provide high precision, stability, and common mode rejection for current and voltage sensing applications without compromising high noise or magnetic field immunity and are available in commercial grade and MIL-STD, DSCC-certified versions. They can be used in a range of power supply types including DC-DC, AC-DC, and UPS designs. They can also serve as analog signal couplers for audio signals.

Featured Products

- Hermetically sealed, analog isolation amplifier
- Hermetically sealed, analog isolation amplifier



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

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