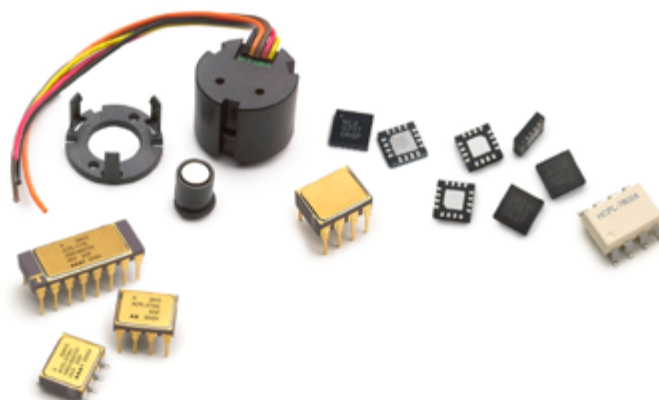


The Avago Advantage



Applications Solutions

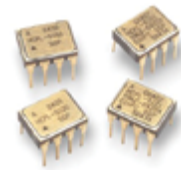
Avago Technologies Solutions for **Radar Systems**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for Radar Systems

Radar systems incorporate many functions in order to do the advance signal processing used and access different frequency bands and protocols. 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 common frequency bands in the transmit and receive stages.



IGBT Gate Drivers

Avago hermetic gate drive optocouplers provide isolated high current gate drivers for IGBTs and power 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 and can also serve as analog signal couplers for audio signals.

Featured Products

- Hermetically sealed, analog isolation amplifier

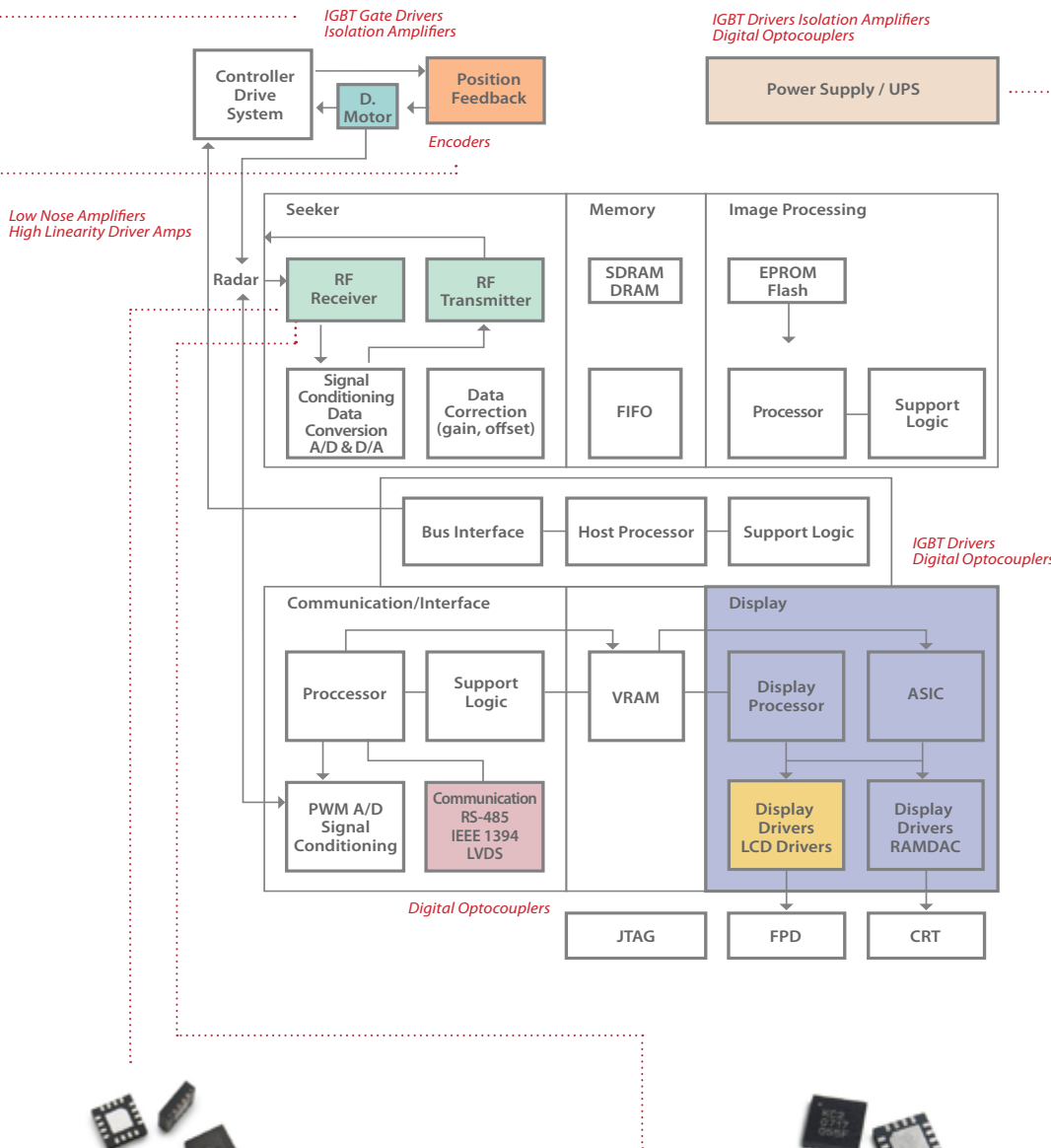


Magnetic and Optical Encoders

Avago offers a wide range of both absolute and incremental optical encoders with a choice of single channel, multi-channel, and various resolution, accuracy, operating temperature, and packaging options to address a variety of design requirements.

Featured Products

- 10-bit and 12-bit magnetic encoders
- 16-bit magnetic encoders
- High temperature 125°C 2-channel incremental optical encoder modules
- High resolution optical encoders



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 and 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. They can also be used to provide isolated input/output lines using a variety of digital communications protocols at up to 20 Mbps data rates.

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



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)



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 radar 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

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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