

The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Wireless Base Stations**



Your Imagination, Our Innovation

Avago Technologies Solutions for **Wireless Base Stations**

In today's new wireless base stations, there is frequent use of fiber optic links to implement Fiber-To-The-Antenna (FTTA) to reduce losses and make it easier to connect multiple antenna sites to a common base station processing unit. Fiber optic links are also common for the backhaul transport connection between the base station and the rest of the network.

The remote radio units (RRUs) need RF components that are efficient, compact, and capable of being integrated into small enclosures while delivering excellent sensitivity and bandwidth



Fiber Optic Transceivers

Avago Technologies offers a variety of fiber optic transceivers supporting all the common interface standards used in base stations such as CPRI, OBSAI, and 10G Ethernet.

Featured Products

- SFP+ transceivers (SR) for up to 500m
- SFP+ transceivers (LR) for up to 40 km

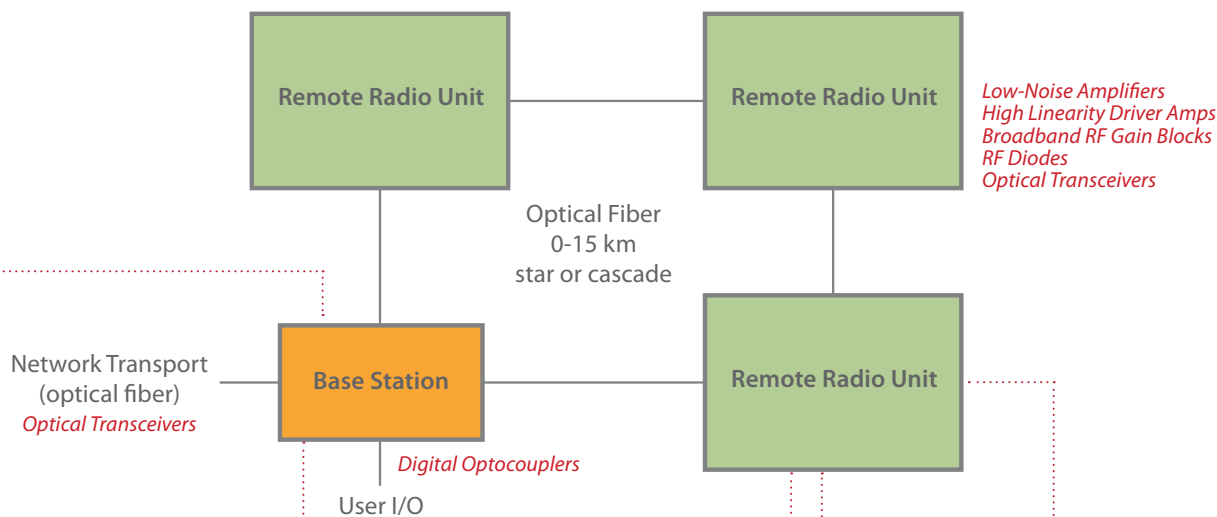


Digital Optocouplers

Avago digital optocouplers provide low power, multi-channels and a wide speed range portfolio for digital isolation without compromising on high voltage insulation and noise isolation performance.

Featured Products

- 10MBd Ultra Low Power Digital CMOS Optocouplers
- 5MBd Low Power Digital CMOS Optocouplers
- 1MBd Low Power Open-Collector Output Digital Optocouplers
- Multi-Channel Bi-Directional Digital Optocouplers
- 15/25MBd High Speed Digital CMOS Optocoupler



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 consistent performance across major cellular frequency band for common platform BTS design.

Featured Products

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

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 BTS design and come in industry-standard SOT-89 & SC70 packages.

Featured Products

- High LFOM Gain Blocks
- 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

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 application
- PIN Diode series for limiter application
- Schottky Diode for detector application

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 major cellular frequency suitable for common platform BTS design.

Featured Products

- Ultra Low Noise Balanced LNAs With Shutdown
- 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, digital, 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 four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial and other. Avago has a global employee presence and rich heritage of technical innovation spanning over six decades.

Avago has strong market positions across a broad range of market segments with highly differentiated products that include:

- Film Bulk Acoustic Resonator (FBAR) Filters
- RF Front End Modules
- Parallel Optics Transceivers
- High Speed SerDes ASIC
- HDD Read Channel & PreAmps
- RAID and SAS I/O Controllers
- PCIe Switches
- Optocouplers
- Motion Encoders
- Industrial Fiber Solutions
- LED Display & Signage Solutions



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