ANADIGICS offers a diverse portfolio of application specific Broadband RF Products with solutions for Infrastructure and Subscriber applications, as well as Wireless applications. ANADIGICS has a 25 year history specializing in the design and manufacturing of high performance RFICs and modules. The ANADIGICS Broadband RF products feature high linearity power amplifiers with low noise and low distortion, produced in our own world-class 6” GaAs wafer fabrication facility.

### Infrastructure & Customer Premises Products

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### Broadband RF applications

ANADIGICS products enable high definition (HD) video, digital simulcast of analog channels, and video on demand (VOD) with superior performance. Our infrastructure power amplifiers deliver exceptionally high linearity, to maintain signal integrity over longer distances. Our highly integrated subscriber products are designed into Customer Premises Equipment (CPE), including home gateways, digital video recorders/personal video recorders (DVR/PVR), and high speed broadband modems.

#### 24V Hybrid Line Amplifiers

ANADIGICS’ family of hybrid line amplifiers offers highly integrated, robust designs optimized for exceptionally low distortion and noise figure. Available in an industry-standard SOT 115J package, and supporting system bandwidths of 870 MHz or 1 GHz, these products deliver high gain and output power with low distortion and noise figure. With industry-leading linearity, exceptional return loss, an integrated RF matching network and high tolerance to ESD and voltage transients, ANADIGICS’ hybrid amplifiers are used in distribution nodes, system/trunk amplifiers, and line extenders in CATV hybrid fiber-coax (HFC) networks.

#### 12V & 24V Line Amplifiers IC’s

ANADIGICS 12 volt and 24 volt CATV line amplifier ICs provide exceptionally low distortion and noise figure over the entire frequency spectrum up to 1 GHz, for PCB direct-mount applications. These monolithic GaAs IC designs feature low distortion and noise figure with high gain in push-pull or power doubler configurations. The product line is field-proven and meets high reliability standards for CATV head-end and distribution equipment.

#### CATV Gain Block Amplifiers

The ANADIGICS 75 Ohm Gain Block product family offers superior low noise amplification with exceptional linearity in a variety of configurations and packages. With up to 23 dB of gain and noise figures as low as 1.5 dB over bandwidth of either 870 MHz or 1 GHz, these gain blocks are optimized for CATV distribution and drop applications, and for set-top boxes.

#### FTTx/RFoG RF Amplifiers

ANADIGICS’ highly integrated RF amplifiers for Fiber-to-the-Premises and RF-over-Glass applications include a low-noise front-end and greater than 20 dB of voltage-controlled gain adjustment, delivering +18 to +21 dBmV per channel in a space-saving, high-performance solution. Operating over 50 MHz to 1 GHz, these devices offer excellent linearity to maintain low CTB and CSO levels in a fully loaded spectrum. These amplifiers also simplify the system design by eliminating the need for photodiode matching circuitry in the RF overlay portion of RFOG and BPON/GPON Optical Network Units (ONU’s).
Reverse Path | Amplifiers
---|---
ANADIGICS’ GaAs upstream amplifiers are designed for CATV infrastructure and subscriber applications with an integrated step attenuator that provides attenuation ranges up to 58 dB, with steps as small as 1 dB, and easy-to-implement serial or parallel controls. With an operating range up to 100 MHz, these amplifiers meet DOCSIS requirements for linear power and harmonic performance. These products feature a single +5 volt supply and provide typical gains (at 0 dB attenuation) of 29 dB or more with exceptionally low noise.

STB | Active Splitters
---|---
ANADIGICS offers active splitters with adjustable gain or fixed gain with up to 8 output paths for a variety of Set-Top Box (STB) and gateway applications, including MoCA enabled products. The splitters are designed with high linearity and low noise figure over a bandwidth up to 1.1 GHz for optimal signal integrity. For maximum design flexibility, the adjustable gain splitters feature independent gain paths, each with a wide gain control range.

Tuner | Upconverters/Downconverters
---|---
ANADIGICS’ tuner components provide a family of signal upconverters and downconverters with high conversion gain and linearity, low distortion, and include dual synthesizers that support 256 QAM digital signals. GaAs MESFET and CMOS technologies are employed to achieve excellent performance and integration, reduce the number of external components, simplify design, and ease the labor-intensive task of production alignment. Select designs offer a 3-wire serial programming interface.

Wireless Broadband applications – ANADIGICS offers integrated power amplifiers featuring high gain, high linearity and high power efficiency for use in broadband mobile communication and infrastructure equipment.

Mobile WiMAX | Power Amplifiers
---|---
ANADIGICS’ mobile WiMAX power amplifiers offer exceptionally high efficiency and linearity, low EVM and integrated RF matching in small packages. These modules are fully compliant with IEEE 802.16e standards and compatible with advanced features such as quality of service (QoS) and low latency. Features include an integrated attenuator and detector, as well as wide operating bandwidths to support worldwide applications.

Wireless Infrastructure | Amplifiers
---|---
ANADIGICS’ wireless infrastructure power amplifiers enable solutions for picocell/femtocell basestations and customer premises equipment (CPE) applications. These modules meet the stringent linearity and output power requirements of the major wireless standards, such as WCDMA, HSPA, LTE and WiMAX, with high reliability. Internally matched for high output power and linearity in band-specific applications, and with output power detectors and step attenuators available on select devices, these integrated devices reduce overall design complexity and save board area.