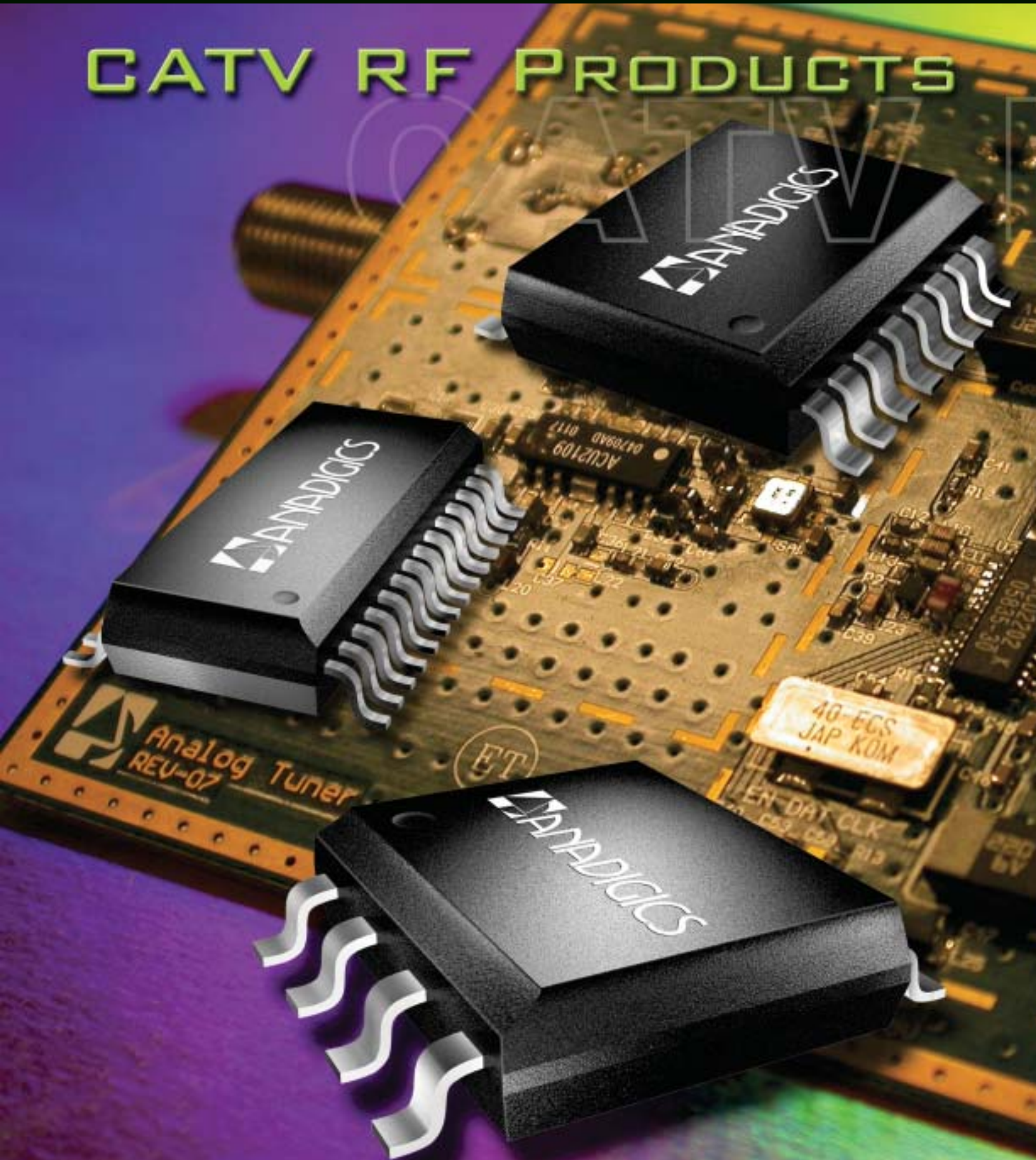


CATV RF PRODUCTS



RF Solutions for CATV Subscriber and Infrastructure Applications

ANADIGICS CATV Subscriber and Infrastructure Products

SOLUTIONS

From our industry leading tuner components to our widely deployed reverse amplifiers and line amplifiers, ANADIGICS subscriber and infrastructure ICs for the CATV market offer best of breed performance, with the best prices and reliability in the industry.

Our line of video tuner, data tuner and reverse amplifier products provide turnkey solutions for your set top box, cable modem and residential gateway platforms. For your CATV infrastructure needs, we offer a complete selection of 12V and 24V line amplifiers, and 5V and 8V drop amplifiers.

TECHNOLOGY

Our state of the art 6-inch GaAs manufacturing facility allows us to produce cost-effective MESFET and HBT based products with superior performance, and our strategic foundry partnerships give us access to other process technologies that have become increasingly vital to the industry.

SUPPORT AND DELIVERY

At ANADIGICS, we deliver. As a proven high-volume manufacturing leader, we have the muscle to meet your production needs. And our design, applications and sales personnel provide world-class support to help you make your CATV designs a production reality.

SUBSCRIBER ICs

Name	P/N	RF Input Frequency (MHz)	RF Output Frequency (MHz)	Typical Conversion Gain (dB)	Typical Noise Figure (dB)	Typical CSO/CTB or IMD3 (dBc)	Typical 10 KHz Offset Phase Noise (dBc/Hz)	Supply Voltage (V)	Typical Power Consumption (W)
CATV/TV/ Cable Modem UpConverter	ACU50752	50-860	900-1200	8	6.5	-60/-60	-84	+5	0.600
Tuner UpConverter	ACU2109	50-860	900-1200	8	6.5	-60/-60	-89	+5	0.770
DBS Tuner	ADC20013	950-2050	480	11	6.5	-40	-70	+5	0.300
Tuner Downconverters (3-wire interface)	ACD0900	900-1200	35-150	9.5	8	-59	-89	+5	0.400
	ACD2202	900-1200	35-150	10	8	-53 max	-90	+5	0.565
	ACD2206	900-1200	35-150	31	8	-53 max	-90	+5	1.065
2-Wire Interface Tuner Downconverter	ACD2203	900-1200	35-150	10	8	-53 max	-90	+5	0.565
	ACD2205 ⁽¹⁾	900-1200	35-150	31	8	-53 max	-90	+5	1.065
Low Noise Amplifiers	ABA3100	50-1000		12	2.5	-72/-75	NA	+5	0.750
	ABA3115	50-1000		15	2.5	-72/-75	NA	+5	0.750

Note 1: New product under development

SUBSCRIBER ICs

Name	P/N	RF Input Frequency (MHz)	Typical Gain (dB)	Max Output Noise @ Max Attenuation (160KHz BW)	Typical 2nd Harmonic Level (10 MHz)	Typical 3rd Harmonic Level (10 MHz)	Typical 1dB Compression Point (dBmV)	Attenuation Range/Step Size (dB)
Reverse Amplifiers for CATV and Cable Modems	ARA05050	5-100	32	-54.6 dBmV	-60 dBc (5 MHz) -63 dBc (25 MHz)	-63 dBc (5 MHz) -63 dBc (25 MHz)	+70	30/2
	ARA1400	5-100	32	-54.6 dBmV	-57 dBc	-64 dBc	+70	56/4
	ARA2000	5-100	29.3	-53.8 dBmV	-75 dBc	-60 dBc	+68.5	58/1
	ARA2004	5-100	29.3	-53.8 dBmV	-75 dBc	-60 dBc	+68.5	58/1
	ARA2005	5-100	29.3	-53.8 dBmV	-75 dBc	-60 dBc	+68.5	58/4
	ARA2018 ⁽¹⁾	5-100	29	-53.8 dBmV	-75 dBc	-60 dBc	+68.5	58/1
Reverse Amplifier for IP Telephony	ARA3000 ⁽²⁾	5-100	16	(3.5 dB typ NF)	-55 dBc	-60 dBc	+70	56/2

Note 1: Industry standard pinout

Note 2: New product under development

INFRASTRUCTURE AMPLIFIER ICs

Name	P/N	Maximum CSO (dBc)	Maximum CTB (dBc)	Typical Gain (dB)	Typical Noise Figure (dB)	Minimum Return Loss (dB)	Supply Voltage (V)	Max Current Consumption (mA)
Distribution Line Amplifiers	ACA1205	-66 ⁽¹⁾	-64 ⁽¹⁾	15	2.5	18	+12	200
	ACA0861A	-66 ⁽¹⁾	-64 ⁽¹⁾	11.9	3	18	+12	200
	ACA0861B	-60 ⁽²⁾	-57 ⁽²⁾	12	3	18	+12	330
	ACA0861C	-68 ⁽¹⁾	-68 ⁽¹⁾	12	3	18	+12	275
	ACA0861D	-68 ⁽²⁾	-66 ⁽²⁾	12.1	3	18	+12	490
Power Doubler Line Amplifiers	ACA2404 ⁽¹²⁾	-78 ⁽⁸⁾	-75 ⁽⁸⁾	21.3	5	18	+24	500 typ
	ACA2407	-69 ⁽³⁾	-74 ⁽³⁾	21.3	4	18	+24	435
	ACA2407E	-64 ⁽³⁾	-66 ⁽³⁾	21.3	4	18	+24	440
Push-Pull Line Amplifiers	ACA2402	-70 ⁽⁴⁾	-71 ⁽⁴⁾	21.8	3.5	18	+24	260
	ACA2402E	-62 ⁽¹¹⁾	-68 ⁽¹¹⁾	21.8	3.5	18	+24	265
	ACA2408	-60 typ ⁽⁴⁾	-60 typ ⁽⁴⁾	34.5	3.5	18	+24	290 typ
Drop Amplifiers	ADA1200	-63 typ ⁽¹⁰⁾	-70 typ ⁽¹⁰⁾	10	2.5	(see data sheet)	+5	75 typ
	ADA10000	-60 ⁽⁵⁾ -62 ⁽⁶⁾	-65 ⁽⁵⁾ -74 ⁽⁶⁾	15	2	(see data sheet)	+8	150
	ADA10001	-60 ⁽⁷⁾	-65 ⁽⁷⁾	15	2	(see data sheet)	+8	150
Low Noise Amplifiers	ABA3100	-72 typ ⁽⁹⁾	-75 typ ⁽⁹⁾	12	2.5	10	+5	170
	ABA3115	-72 typ ⁽⁹⁾	-75 typ ⁽⁹⁾	15	2.5	10	+5	170

Note 1: 110 channel flat output, +34 dBmV per channel

Note 2: 110 channel flat output, +44 dBmV per channel

Note 3: 77 channels, +56 dBmV output per channel, 13.5 dB tilt at 870 MHz

Note 4: 110 channel flat output, +40 dBmV per channel

Note 5: 160 channel flat output, +17 dBmV per channel

Note 6: 80 channel flat output, +19 dBmV per channel

Note 7: 160 channel flat output, +23 dBmV per channel

Note 8: 77 channels, +58 dBmV output per channel, 13.5 dB tilt at 870 MHz

Note 9: 132 channels flat output, +25 dBmV per channel

Note 10: 132 channels flat input, +15 dBmV per channel at input

Note 11: 77 channel flat output, +42 dBmV per channel

Note 12: New product under development



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SUNSTAR 商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有 10 多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌 IC 芯片和电子元器件的连锁经营综合性国际公司，专业经营进口、国产名厂名牌电子元件，型号、种类齐全。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM 电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA 软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。商斯达实业公司拥有庞大的资料库，有数位毕业于著名高校——有中国电子工业摇篮之称的西安电子科技大学（西军电）并长期从事国防尖端科技研究的高级工程师为您精挑细选、量身订做各种高科技电子元器件，并解决各种技术问题。

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