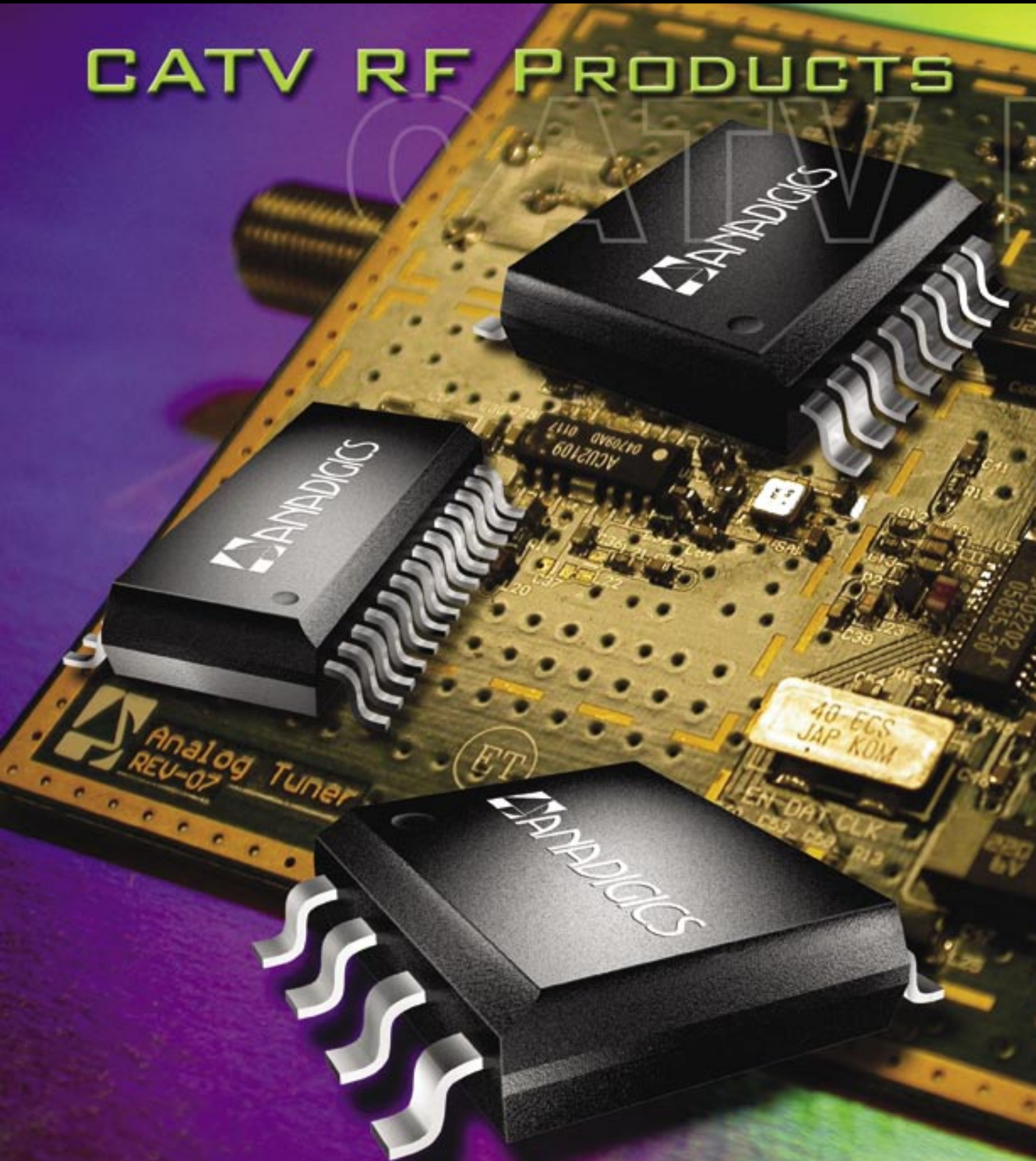


CATV RF PRODUCTS



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	Part #	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	Part #	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
Reverse Amplifier for IP Telephony	ARA3000 ⁽¹⁾	5-100	16	(3.5 dB typ NF)	-55 dBc	-60 dBc	+70	56/2

Note 1: New product under development

SUBSCRIBER ICs

Name	Part #	No. of Outputs	Operating Freq. (MHz)	Typical Gain (dB)	Typical AGC Range (dB)	Typical Noise Figure (dB)	Typical CSO/CTB (dBc)	Supply Voltage (V)	Supply Current (mA)
Active Splitter	APS3600 ⁽¹⁾	4	50 to 1000	5	28	4.8	-70/-70	+5	230
	APS3604	3	50 to 1100	5	28	4.8	-66/-66	+5	175

Note 1: New product under development

INFRASTRUCTURE AMPLIFIER ICs

Name	Part #	Maximum CSO (dBc)	Maximum CTB (dBc)	Typical Gain (dB)	Typical Noise Figure (dB)	Minimum Return Loss (dB)	Supply Voltage (V)	Max Current Consumption (mA)
12 V Push-Pull Line Amplifiers	ACA1205	-66 ⁽¹⁾	-64 ⁽¹⁾	15	2.5	18	+12	200
	ACA0861A	-66 ⁽¹⁾	-64 ⁽¹⁾	11.9	3	18	+12	200
	ACA0861C	-68 ⁽¹⁾	-68 ⁽¹⁾	12	3	18	+12	275
12 V Power Doubler Line Amplifiers	ACA0861B	-60 ⁽²⁾	-57 ⁽²⁾	12	3	18	+12	330
	ACA0861D	-68 ⁽²⁾	-66 ⁽²⁾	12.1	3	18	+12	490
24 V 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
24 V 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

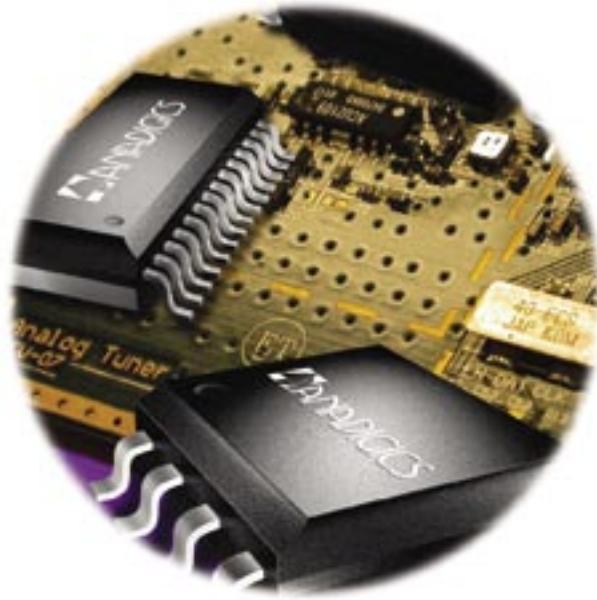
Note 8: 77 channels, +58 dBmV output per channel, 13.5 dB tilt at 870 MHz

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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January 2005