

中国区代理:

上海馥莱电子有限公司

上海市普陀区祁连山南路2888号A座9H

Tel: 021-5291 8556, 137-6444-1515

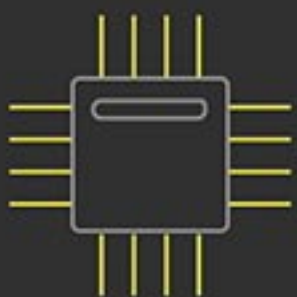
Fax: 021-6260 7783

Email: sales@fulai-elec.com

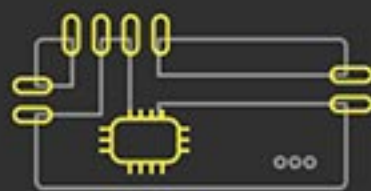
www.fulai-elec.com



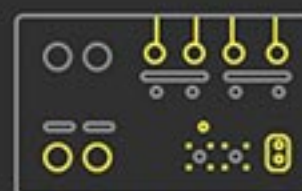
ADSANTEC



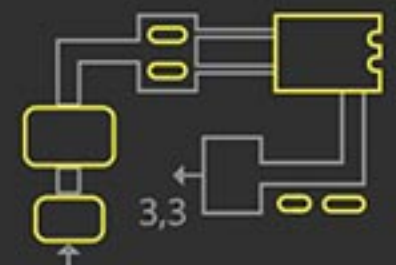
CHIP MAKER



FULL TEST SOLUTIONS



INSTRUMENTATION



CUSTOM ASIC DESIGN



ADSANTEC

Table of Contents

1.	Serializers/Deserializers (Mux/DeMux).....	2-4
i.	Serializers (Multiplexers).....	2
a.	Programmable Multiplexers with integrated CMU.....	2
b.	Digital Multiplexers.....	2
ii.	Deserializers (Demultiplexers).....	3
a.	Programmable Demultiplexers with integrated CDR.....	3
b.	Digital Demultiplexers.....	3
iii.	Selectors/Switches.....	4
2.	Variable Delay Lines (Phase Shifters).....	4-5
i.	Broadband Digital Signal Delay Lines.....	4-5
ii.	Narrowband Digital Signal Delay Lines.....	5
3.	High Speed Analog Family.....	5-7
i.	Linear Signal Splitters.....	5
ii.	Linear Amplifiers.....	6
iii.	Transimpedance Amplifiers (TIAs).....	6
iv.	Drivers.....	6
v.	Delays and FIR Filters.....	6
vi.	Signal Spectrum Converters.....	7
4.	High Speed Logic Family.....	7-9
i.	Limiting Amplifiers.....	7
ii.	Digital Signal Splitters.....	7-8
iii.	D-Type Flip-Flops.....	8
iv.	Boolean Logic Gates.....	9
5.	Clock Processors/Signal Generators.....	9-10
i.	Programmable CMUs.....	9
ii.	Frequency Dividers.....	9
iii.	Multipliers.....	9
iv.	Phase Detectors.....	10
v.	PRBS Signal Generators.....	10
vi.	Encoders.....	10
vii.	Digital Filters.....	10
6.	Interface and Level Converters.....	10
7.	ADCs.....	11
8.	Board Level Products.....	11
9.	Instrumentation.....	12

Programmable Multiplexers with Integrated CMU

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT1011-KMA	Digital 16:1 Multiplexer	DC	17Gbps	660	100-pin CQFP
ASNT1011-PQA	Digital 16:1 Multiplexer	DC	16Gbps	660	100-pin QFN
ASNT1011A-KMA	Digital 16:1 Multiplexer	DC	17Gbps	660	100-pin CQFP
ASNT1011A-PQA	Digital 16:1 Multiplexer	DC	17Gbps	660	100-pin QFN
ASNT1016-PQA	Digital 16:1 Multiplexer with 9.8-12.5GHz Integrated CMU	9.8GHz DC	12.5GHz 17Gbps	660	100-pin QFN
ASNT1017-PQA	Digital 16:1 Multiplexer with 12.0-14.3GHz Integrated CMU	12GHz DC	14.3GHz 17Gbps	660	100-pin QFN

Digital Multiplexers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT1121-KMM	Broadband Digital 4:1 Multiplexer	DC	50Gbps	960	44-pin CQFP
ASNT1123-KMM	Broadband Digital DDR 4:1 Multiplexer	DC	64Gbps	1150	44-pin CQFP
ASNT1123-PQB	Broadband Digital DDR 4:1 Multiplexer	DC	32Gbps	1150	40-pin QFN
ASNT1124-KMM	Broadband Digital DDR 4:1 Multiplexer with Duty Cycle & Amplitude Control	DC	64Gbps	1180	44-pin CQFP
ASNT1140-KMA	Programmable DDR 16:1 Multiplexer/Serializer with Reset, Amplitude Control, and Clock Duty Cycle Control	DC	50Gbps	1520	100-pin CQFP
ASNT5050-KMC	Broadband Digital 2:1 Multiplexer / Selector	DC	32Gbps	450	24-pin CQFP
ASNT5050-PQC	Broadband Digital 2:1 Multiplexer / Selector	DC	32Gbps	450	24-pin QFN
ASNT5150-KMC	Broadband Digital 2:1 Multiplexer / Selector	DC	50Gbps	315	24-pin CQFP
ASNT5151-KMC	Broadband Digital 2:1 Multiplexer / Selector	DC	64Gbps	415	24-pin CQFP
ASNT5151-MOD	Modular Broadband Digital 2:1 Multiplexer/Selector	DC	64Gbps	565	Module
ASNT5153-KMC	Broadband Digital 2:1 Multiplexer / Selector w/ Duty Cycle & Amplitude Control	DC	56Gbps	500	24-pin CQFP



Programmable Demultiplexers with Integrated CDR

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT2011-KMA	Digital 1:16 Demultiplexer	DC	17Gbps	730	100-pin CQFP
ASNT2011-PQA	Digital 1:16 Demultiplexer	DC	17Gbps	730	100-pin QFN
ASNT2016-PQA	Digital 1:16 Demultiplexer with Integrated Full Rate CDR	11.3 DC	12.5Gbps 17Gbps	730	100-pin QFN
ASNT2017-PQA	Digital 1:16 Demultiplexer with Integrated Full Rate CDR	12.5 DC	13.6Gbps 17Gbps	890	100-pin QFN
ASNT2017A-PQA	Digital 1:16 Demultiplexer with Integrated Full Rate CDR	13.5 DC	14.4Gbps 17Gbps	890	100-pin QFN
ASNT2110-KMF	Reconfigurable 1:2 Demultiplexer with Integrated Half Rate PAM4 CR	25.5	32.5GHz	1600	64-pin CQFP
ASNT2112-KMF	Reconfigurable 1:2 Demultiplexer with Integrated Half Rate PAM4 CR	21	26GHz	1600	64-pin CQFP
ASNT2116-KMF	Reconfigurable 1:1 Full Rate PAM4 CR	25	31.5GHz	2250	64-pin CQFP
ASNT8160-KMF	Reconfigurable Half Rate CR	25.5	32.5GHz	1600	64-pin CQFP

Digital Demultiplexers

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT2031-MBL	24:48 SSTL-SSTL Demultiplexer	1.0Mbps	2.0Gbps	2100	256-pin BGA
ASNT2032-MBL	12:24 LVDS-LVDS Demultiplexer	1.0Mbps	3.6Gbps	924	256-pin BGA
ASNT2121-KMM	Broadband Digital 1:4 Demultiplexer	DC	50Gbps	1350	44-pin CQFP
ASNT2123-KMM	Broadband Digital DDR 1:4 Demultiplexer	DC	64Gbps	1160	44-pin CQFP
ASNT2124-KMM	Broadband Digital DDR 1:4 Demultiplexer w/ Duty Cycle Control	DC	64Gbps	1250	44-pin CQFP
ASNT2140-KMA	Programmable DDR Demultiplexer 1:16 / Deserializer with Reset and Clock Duty Cycle Control	DC	32Gbps	1350	100-pin CQFP
ASNT5090-KMC	Broadband Digital 1:2 Demultiplexer	DC	48Gbps	730	24-pin CQFP
ASNT5090-PQC	Broadband Digital 1:2 Demultiplexer	DC	32Gbps	730	24-pin QFN
ASNT5190-KMC	Broadband Digital 1:2 Demultiplexer	DC	60Gbps	560	24-pin CQFP
ASNT5190A-KMC	Broadband Digital 1:2 Demultiplexer	DC	64Gbps	600	24-pin CQFP
ASNT5190B-KMC	Broadband Digital 1:2 Demultiplexer w/ Duty Cycle Control	DC	64Gbps	600	24-pin CQFP

Selectors & Switches

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT1122-KMC	Broadband 1 of 4 Selector / Switch	DC	32Gbps	300	24-pin CQFP
ASNT5051-KMC	High Isolation Selector / Switch 1 of 2	DC	32Gbps	287	24-pin CQFP
		DC	17GHz		
ASNT5051-PQC	High Isolation Selector / Switch 1 of 2	DC	17Gbps	287	24-pin QFN
		DC	17GHz		
ASNT5152-PQC	Broadband 1 of 2 High Isolation Selector / Switch	DC	17Gbps	315	24-pin QFN
		DC	17GHz		

Broadband Digital Signal Delay Lines

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT5001-KMC	Clock / Data Phase Shifter with Linear OB and 265ps Delay Variation	DC	32Gbps	1000	24-pin CQFP
		DC	17GHz		
ASNT5001-PQC	Clock / Data Phase Shifter with Linear OB and 265ps Delay Variation	DC	32Gbps	1000	24-pin QFN
		DC	17GHz		
ASNT5070-PQC	Clock / Data Phase Shifter with 275ps Delay Variation	DC	17Gbps	1585	24-pin QFN
		DC	14GHz		
ASNT5071-PQC	Clock / Data Phase Shifter with 320ps Delay Variation	DC	17Gbps	1435	24-pin QFN
		DC	10GHz		
ASNT5073-KMC	Clock / Data Phase Shifter with Amplitude Control and 155ps Delay Variation	DC	28Gbps	1305	24-pin CQFP
		DC	14GHz		
ASNT5073-PQC	Clock / Data Phase Shifter with Amplitude Control and 155ps Delay Variation	DC	17Gbps	1305	24-pin QFN
		DC	17GHz		
ASNT5075-PQC	Clock / Data Phase Shifter with Phase Modulation and 260ps Delay Variation	DC	28Gbps	1585	24-pin QFN
		DC	14GHz		
ASNT5076-KMC	Clock / Data Phase Shifter with Amplitude Control and 155ps Delay Variation	DC	28Gbps	1355	24-pin CQFP
		DC	16GHz		
ASNT5076-PQC	Clock / Data Phase Shifter with Amplitude Control and 155ps Delay Variation	DC	17Gbps	1355	24-pin QFN
		DC	16GHz		
ASNT5079-KMC	Clock / Data Phase Shifter with Linear OB and 280ps Delay Variation	DC	20Gbps	1600	24-pin CQFP
		DC	14GHz		
ASNT5079-PQC	Clock / Data Phase Shifter with Linear OB and 280ps Delay Variation	DC	17Gbps	1600	24-pin QFN
		DC	14GHz		
ASNT5101-KMC	Clock / Data Phase Shifter with 105ps Delay Variation	DC	46Gbps	745	24-pin CQFP
		DC	23GHz		
ASNT5101-PQC	Clock / Data Phase Shifter with 105ps Delay Variation	DC	22Gbps	745	24-pin QFN
		DC	20GHz		
ASNT5102-KMC	Clock Phase Shifter with 105ps Delay Variation	DC	32.5GHz	875	24-pin CQFP
ASNT5105A-KMC	Clock / Data Phase Shifter with External Frequency Response Control and 110ps Delay Variation	DC	50Gbps	1250	24-pin CQFP
		DC	32GHz		



Broadband Digital Signal Delay Lines

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT5170-PQC	Clock / Data Phase Shifter with Low Power Consumption and 260ps Delay Variation	DC	17Gbps	610	24-pin QFN
ASNT5173-PQC	Clock / Data Phase Shifter with Variable Output Amplitude, Low Power Consumption, and 135ps Delay Variation	DC	14GHz	495	24-pin QFN
ASNT5174-KMC	Clock / Data Phase Shifter with Low Power Consumption and 135ps Delay Variation	DC	17Gbps	415	24-pin CQFP
ASNT5175-PQC	Clock / Data Phase Shifter with Phase Modulation, Low Power Consumption, and 255ps Delay Variation	DC	15GHz	610	24-pin QFN

Narrowband Digital Delay Lines

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT5072-PQC	Clock Phase Shifter with 140ps Delay Variation	11	17GHz	910	24-pin QFN
ASNT5073A-PQC	Clock Phase Shifter with Amplitude Control and 150ps Delay Variation	11	17GHz	1305	24-pin QFN
ASNT5104-KMC	Clock Phase Shifter with DC Offset Compensation and 120ps Delay Variation	20	32GHz	1400	24-pin CQFP
ASNT5172-PQC	Clock Phase Shifter with Low Power Consumption and 100ps Delay Variation	11	17GHz	430	24-pin QFN

Linear Signal Splitters

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT6112-KMM	1-to-4 Analog Signal Splitter with Differential Outputs	DC	25GHz	1350	44-pin CQFP
ASNT6113-KMC	1-to-3 Analog Signal Splitter with Differential Outputs	DC	25GHz	1000	24-pin CQFP
ASNT6114-KMC	1-to-2 Analog Signal Splitter with Differential Outputs / PAM4	DC	25GHz	660	24-pin CQFP

Linear Amplifiers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6141-KMC	Linear Amplifier	DC	12GHz	530	24-pin CQFP
ASNT6142-BD	Linear Amplifier Die	DC	20GHz	695	Not Packaged
ASNT6142-KMC	Linear Amplifier	DC	20GHz	695	24-pin CQFP

Delays and FIR Filters

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6170-KMC	Analog Signal Adjustable Delay	DC	20GHz	560	24-pin CQFP
ASNT6171-KMO	15-Tap Analog FIR Filter	DC	20Gbps	2650	64-pin CQFP
		DC	10GHz		

Transimpedance Amplifiers (TIAs)

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6021-BD	Transimpedance Amplifier with Automatic Offset Control and Input Peak Detector Die	DC	17.6Gbps	250	Not Packaged
ASNT6121-BD	High Gain Transimpedance Amplifier with Limiting Amplifier, Automatic Offset Control, and Input Peak Detector Die	DC	43Gbps	475	Not Packaged
ASNT6122-BD	Low Power, Low Gain Transimpedance Amplifier with Automatic Offset Control and Input Peak Detector Die	DC	43Gbps	320	Not Packaged
ASNT6123-BD	Dual Transimpedance Amplifier with Automatic Offset Control and Input Peak Detectors Die	DC	25Gbps	495	Not Packaged
ASNT6124-BD	Transimpedance Amplifier with Linear Amplifier and Automatic Gain Control Die	DC	28Gbps	776	Not Packaged

Drivers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6118-MOD	Modular Advanced Driver / Amplifier with Digital Pre-Emphasis, PAM4 Encoding, and less than 200fs p-p Jitter	1	32.5Gbps	10000	Benchtop
ASNT6119-KMF	Advanced Driver / Amplifier with Digital Pre-Emphasis, PAM4 Encoding, less than 200fs p-p Jitter, with Standard CMOS 3-wire SPI interface	1	32.5Gbps	4000	64-pin CQFP
ASNT6119A-KMF	Advanced Driver / Amplifier with Digital Pre-Emphasis, PAM4 Encoding, less than 200fs p-p Jitter, with High-Speed CML 3-wire SPI interface	1	32.5Gbps	4000	64-pin CQFP



Signal Spectrum Converters

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6150-KMM	Balanced I/Q Modulator (Up-Converter) with LPF	DC	18GHz	446	44-pin CQFP
ASNT6151-KMM	Balanced I/Q Modulator (Up-Converter)	DC	18GHz	430	44-pin CQFP
ASNT6152-KMM	Dual Continuous Time Linear Equalizer with Error Detection	0.05	28 Gbps	1000 / 1400	44-pin CQFP

Limiting Amplifiers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5037-KMC	Limiting Amplifier with Variable Control Amplitude (3.3V Power Supply)	DC	28Gbps	600	24-pin CQFP
ASNT5037-PQC	Limiting Amplifier with Variable Control Amplitude (3.3V Power Supply)	DC	17Gbps	647	24-pin QFN
ASNT5131-KMC	Limiting Amplifier with Variable Control Amplitude (5.0V Power Supply)	DC	28Gbps	500	24-pin CQFP
ASNT5131-PQC	Limiting Amplifier with Variable Control Amplitude (5.0V Power Supply)	DC	17Gbps	500	24-pin QFN
ASNT5132-KMC	Limiting Amplifier with Variable Output Amplitude	DC	32Gbps	750	24-pin CQFP
ASNT5136-BD	Limiting Amplifier	DC	45Gbps	365	Not Packaged
ASNT5136-KMC	Limiting Amplifier	DC	45Gbps	365	24-pin CQFP
ASNT5530-KMC	Limiting Amplifier	DC	45Gbps	340	24-pin CQFP

Digital Signal Splitters

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5020-BD	Data/Clock Signal Distributor 1-to-2 Die	DC	28Gbps	560	Not Packaged
ASNT5020-PQC	Data/Clock Signal Distributor 1-to-2	DC	28Gbps	560	24-pin QFN
ASNT5020-PQD	Data/Clock Signal Distributor 1-to-2	DC	26Gbps	560	16-pin QFN
ASNT5021-PQC	Data/Clock Signal Distributor 1-to-3	DC	28Gbps	780	24-pin QFN
ASNT5021-PQD	Data/Clock Signal Distributor 1-to-3	DC	26Gbps	780	16-pin QFN
ASNT5022-BD	Data/Clock Signal Distributor 1-to-3 Die	DC	28Gbps	810	Not Packaged
ASNT5023-KMM	Data/Clock Signal Distributor 1-to-4	DC	28Gbps	1220	44-pin CQFP
ASNT5023-PQC	Data/Clock Signal Distributor 1-to-4	DC	28Gbps	1220	24-pin QFN
ASNT5024-KMC	Data/Clock Signal Distributor 1-to-3 with Differential Outputs in Order	DC	28Gbps	780	24-pin CQFP
ASNT5024-PQC	Data/Clock Signal Distributor 1-to-3 with Differential Outputs in Order	DC	28Gbps	780	24-pin QFN

Digital Signal Splitters

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5121-KMC	Data/Clock Signal Distributor 1-to-3	DC	50Gbps 32GHz	580	24-pin CQFP
ASNT5121B-KMC	Clock Signal Distributor 1-to-3 with jitter less than 140fs	DC	35GHz	760	24-pin CQFP
ASNT5121C-KMC	Data/Clock Signal Distributor 1-to-3	DC DC	50Gbps 32 GHz	580	24-pin CQFP
ASNT5121D-KMC	Clock Signal Distributor 1-to-3	DC	35GHz	760	24-pin CQFP
ASNT5121E-KMC	Data Signal Distributor 1-to-3	DC	64Gbps	710	24-pin CQFP

D-Type Flip-Flops

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5010-KMC	D-Type Flip-Flop with 12.5GHz Analog Bandwidth	DC	32Gbps	415	24-pin CQFP
ASNT5010-PQC	D-Type Flip-Flop	DC	17Gbps	415	24-pin QFN
ASNT5012-KMC	D-Type Flip-Flop with Increased Input Signal Sensitivity and 13GHz Analog Bandwidth	DC	32Gbps	465	24-pin CQFP
ASNT5012-PQC	D-Type Flip Flop with Increased Input Signal Sensitivity	DC	17Gbps	465	24-pin QFN
ASNT5013-KMC	D-Type Flip-Flop with Single-Ended Output Amplitude Control up to 700mV	DC	30Gbps	510	24-pin CQFP
ASNT5014-KMC	D-Type Flip-Flop with Single-Ended Output Amplitude Control up to 1000mV	DC	25Gbps	725	24-pin CQFP
ASNT5110-KMC	D-Type Flip-Flop with Amplitude Control	DC	40Gbps	300	24-pin CQFP
ASNT5111-KMC	D-Type Flip-Flop with Amplitude Control	DC	50Gbps	720	24-pin CQFP
ASNT5112-KMC	Low Power D-Type Flip-Flop with Increased Input Signal Sensitivity and 15GHz Analog Bandwidth	DC	32Gbps	300	24-pin CQFP
ASNT5113-KMC	D-Type Flip-Flop with Increased Input Signal Sensitivity, Common Mode Level Adjustment, and 30GHz Input Bandwidth	DC	32Gbps	510	24-pin CQFP
ASNT5114-KMC	Linearized D-Type Flip Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	DC	32Gbps	530	24-pin CQFP
ASNT5115-KMM	Dual D-Type Flip-Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	DC	32Gbps	1020	44-pin CQFP
ASNT5116-KMM	Linearized Dual D-Type Flip Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	DC	32Gbps	1010	44-pin CQFP
ASNT5117-KMC	D-Type Flip Flop with Increased Input Signal Sensitivity, Output Amplitude Control, and Common Mode Level Adjustment	DC	40Gbps	726	24-pin CQFP



Boolean Logic Gates

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5040-KMC	XOR Logic Gate	DC	25GHz	415	24-pin CQFP
ASNT5040-PQC	XOR Logic Gate	DC	17GHz	415	24-pin QFN
ASNT5140-KMC	XOR Logic Gate	DC	30GHz	270	24-pin CQFP
ASNT5160-KMC	AND/OR Logic Gate	DC	50Gbps	270	24-pin CQFP

Programmable CMUs

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT8050-PQB	Programmable PLL w/ Integrated VCOs	7.4 10.8	8.8GHz 12.7GHz	630	40-pin QFN
ASNT8051-PQB	Programmable PLL w/ Integrated VCOs	9.9 11.0	12.1GHz 12.9GHz	570	40-pin QFN
ASNT8052-PQB	Programmable PLL w/ Integrated VCOs	11.0 13.0	13.3GHz 14.4GHz	585	40-pin QFN
ASNT8151-KMC	Programmable Low Phase Noise, less than 290fs jitter PLL with Integrated VCOs	24.0	32.1GHz	450-530	24-pin CQFP

Frequency Dividers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5180-KMC	Broadband Clock Divider-by-2	DC	40GHz	270	24-pin CQFP
ASNT8010-PQB	Programmable Integer Divider	DC	17GHz	1900-2100	40-pin QFN
ASNT8130-KMC	Broadband Clock Divider-by-2 / by-4	DC	36GHz	260	24-pin CQFP
ASNT8131-PQC	Broadband Clock Divider by-2 / by-4	DC	32GHz	317	24-pin QFN
ASNT8132-KMC	Broadband Clock Divider-by-2	DC	54GHz	630	24-pin CQFP
ASNT8133-KMC	Broadband Clock Divider by-1 / by-2 / by-4	DC	50GHz	845	24-pin CQFP

Multipliers

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT5141-KMC	Frequency Doubler	4	30GHz	545	24-pin CQFP

Phase Detectors

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT8120-KMC	Linear Phase Detector	DC	28.6Gbps	760	24-pin CQFP
ASNT8121-KMC	Linear Phase Detector	DC	34Gbps	895	24-pin CQFP

PRBS Signal Generators

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT8140-KMC	PRBS7 Generator w/ (x^7+x+1) Polynomial	DC	23Gbps	530	24-pin CQFP
ASNT8141-KMC	PRBS7 Generator w/ (x^7+x^6+1) Polynomial	DC	23Gbps	530	24-pin CQFP
ASNT8142-KMC	PRBS7/PRBS15 Generator (x^7+x^6+1) and $x^{15}+x^{14}+1$ Polynomials	DC	23Gbps	660	24-pin CQFP

Encoders

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT6101-KMM	PAM4 Signal Generator / Encoder	2	65Gbps	1250	44-pin CQFP

Digital Filters

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT8170-KMM	9-Tap Finite Response Filter	DC	5.6 GHz	422	44-pin CQFP

Interface & Level Converters

P/N	FUNCTION	FREQUENCY (min) (max)		POWER (mW)	PACKAGE
ASNT3010-PQB	LVDS/CMOS/LVDS Converter & Signal Splitter	DC	2Gbps	115	40-pin QFN
ASNT3111-KMC	Single-Channel CML-to-PCML Level Shifter	DC	40Gbps	260	24-pin CQFP
ASNT3111-PQC	Single-Channel CML-to-PCML Level Shifter	DC	20Gbps	260	24-pin QFN
ASNT3112-KMC	Dual-Channel Linear Signal Level Down-Shifter	DC	32Gbps	1150	24-pin CQFP



ADCs

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT7112-PQB	Differential Sample-and-Hold Amplifier with 14GHz Input Analog Bandwidth	DC	14GHz	1750	40-pin QFN
ASNT7113-KMC	Differential Track-and-Hold Amplifier with 20GHz Input Analog Bandwidth	DC	20GHz	1750	24-pin CQFP
ASNT7120-KMA	4-bit Flash Analog-to-Digital Converter with 18GHz Input Analog Bandwidth	DC	18GHz	2400	100-pin CQFP
ASNT7120A-KMA	4-bit Flash Analog-to-Digital Converter with 20GHz Input Analog Bandwidth	DC	20GHz	3570	100-pin CQFP
ASNT7121-KMA	4-bit Flash Analog-to-Digital Converter with 20GHz Input Analog Bandwidth and PRBS Generator	DC	20GHz	2800-2850	100-pin CQFP
ASNT7122-KMA	4-bit Flash Analog-to-Digital Converter with 20GHz Input Analog Bandwidth and High Speed Outputs	DC	20GHz	4340	100-pin CQFP

Board Level Products

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT28_1	Clock Divider by-4 / 1-to-512	2kHz	32GHz	3795	Board
ASNT2MUX25	Dual Channel Data Rate Doubler w/ Sync Output	DC	44Gbps	7260 9060 if divider installed	Board
ASNT501	Clock Divider by-8 / 2-to-1024	2kHz	41GHz	3630	Board
ASNT502	Clock Divider by-8 / 2-to-1024	2kHz	56GHz	4300	Board
ASNTPRBS20_1	2 ⁷ -1 PRBS Generator w/ Jitter Insertion, Sync Output, & Amplitude Control	20Mbps	18Gbps	5900	Board
ASNTPRBS20B_1	2 ⁷ -1 / 2 ¹⁵ -1 PRBS Generator w/ Jitter Insertion, Sync Output, & Amplitude Control	20Mbps	18Gbps	6900	Board
ASNTPRBS32_1	2 ⁷ -1 PRBS Generator with Sync Output	8Gbps	34Gbps	4600	Board
ASNTPRBS34_1	2 ⁷ -1 / 2 ¹⁵ -1 PRBS Generator with Sync Output	8Gbps	34Gbps	5100	Board
ASNTPRBS40_1	2 ⁷ -1 PRBS Generator with Sync Output	4Gbps	44Gbps	6800	Board
ASNTPRBS56_1	2 ⁷ -1 / 2 ¹⁵ -1 PRBS Generator with Sync Output	4Gbps	52Gbps	7000	Board

Instrumentation

P/N	FUNCTION	FREQUENCY (min)	FREQUENCY (max)	POWER (mW)	PACKAGE
ASNT6118-MOD	Modular Advanced Driver / Amplifier with Digital Pre-Emphasis, PAM4 Encoding, and less than 200fs p-p Jitter	1	32.5Gbps	10000	Benchtop
ASNT_ED45_2CH	2 Channel PRBS Error Detector with USB Control Interface	1	33.5Gbps	238000	Benchtop
ASNT_FS8151	Frequency Synthesizer with USB Control Interface	4	32GHz	15000	Benchtop
ASNT_MUX64	2:1 Multiplexer w/ USB Control Interface	2Mbps	64Gbps	15000	Benchtop
ASNT_PRBS43A	2 ⁷ -1 / 2 ¹⁵ -1 PRBS Generator with USB Control Interface and on-board PLL	10kBps	48Gbps	20000	Benchtop
ASNT_PRBS45	PRBS7 to PRBS31 Pattern Generator with USB Control Interface	4	45Gbps	21250	Benchtop



ASNT_PRBS45



ASNT_PRBS43A



ASNT_ED45_2CH

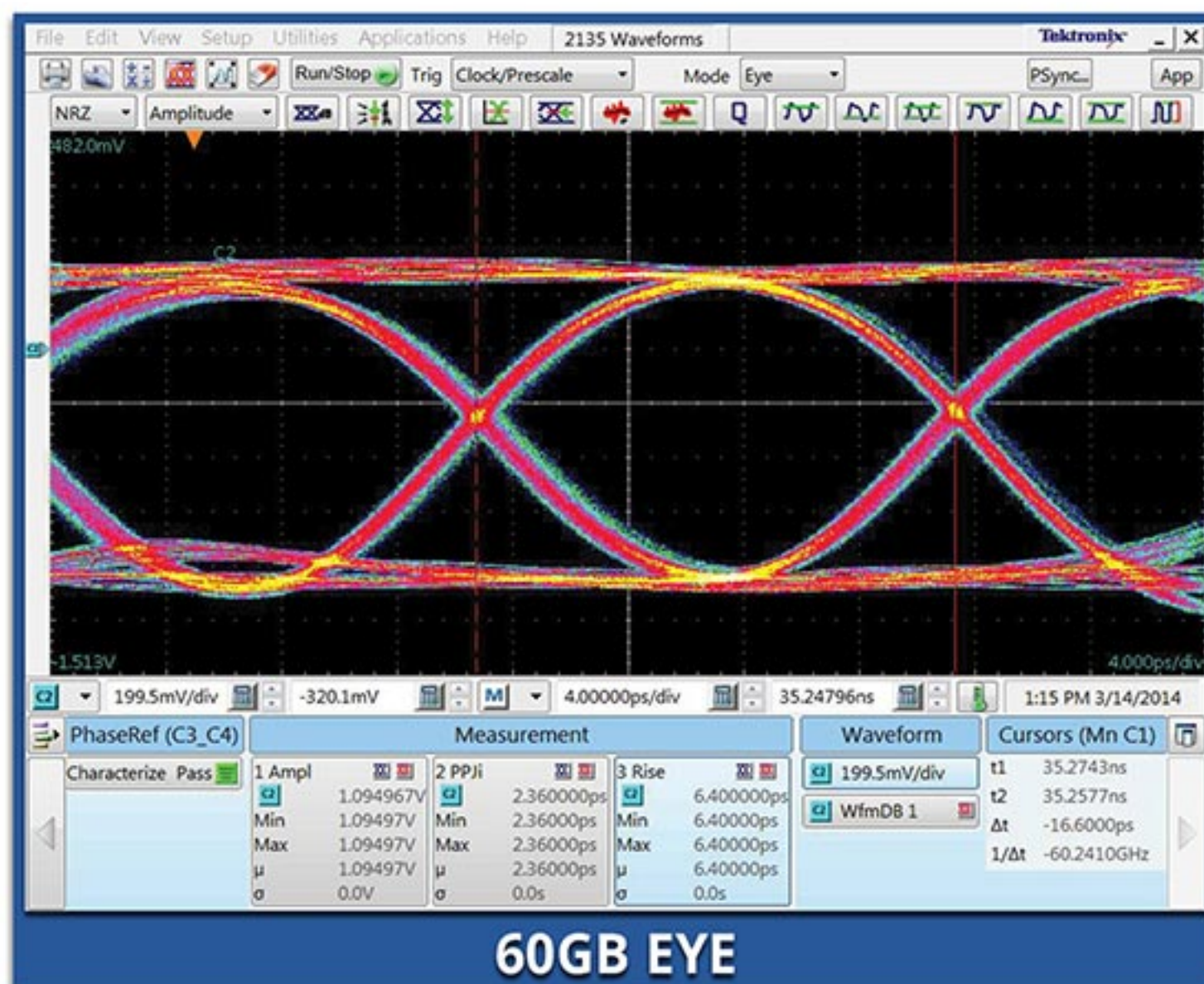
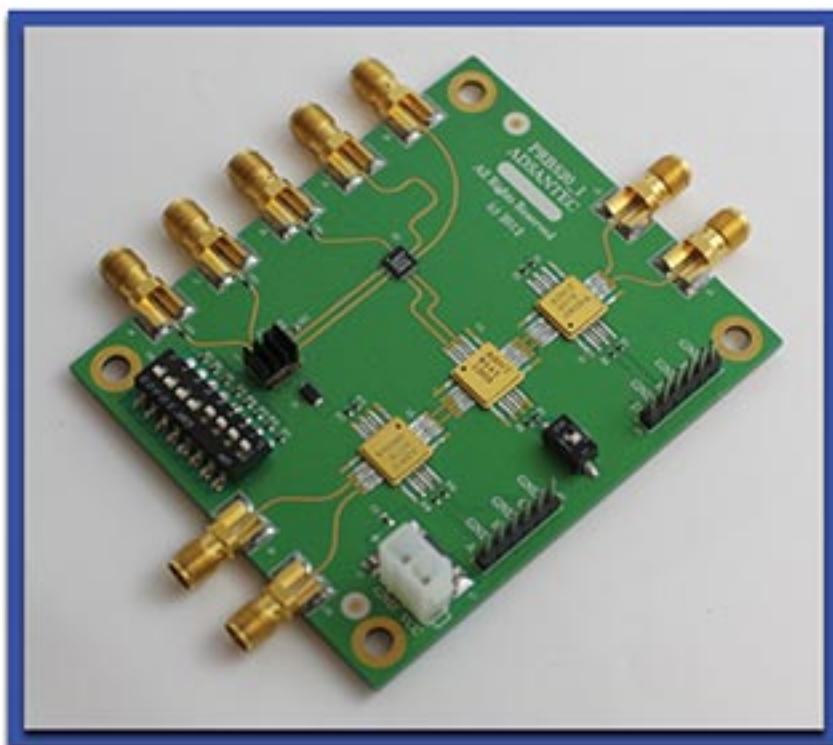
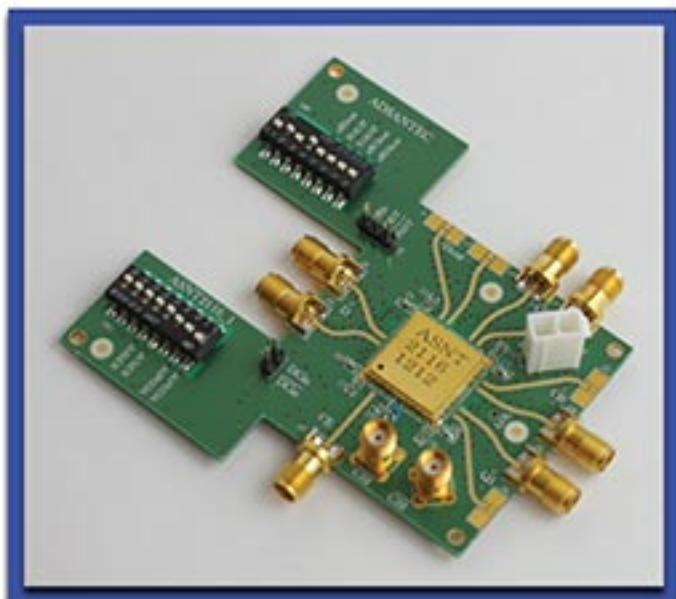
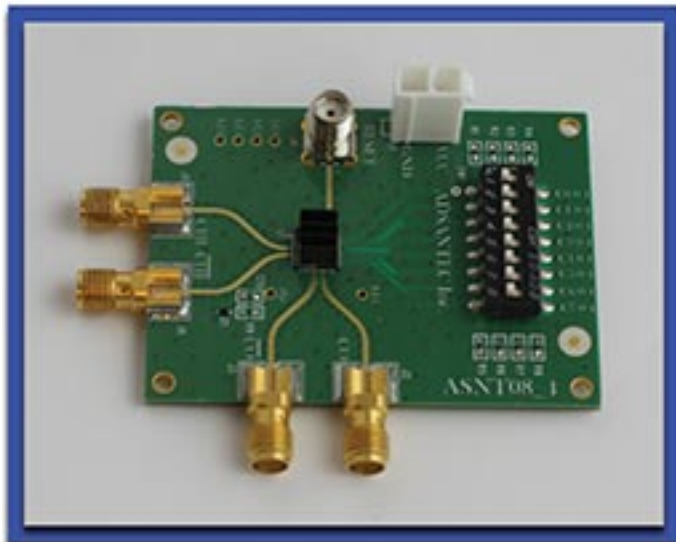
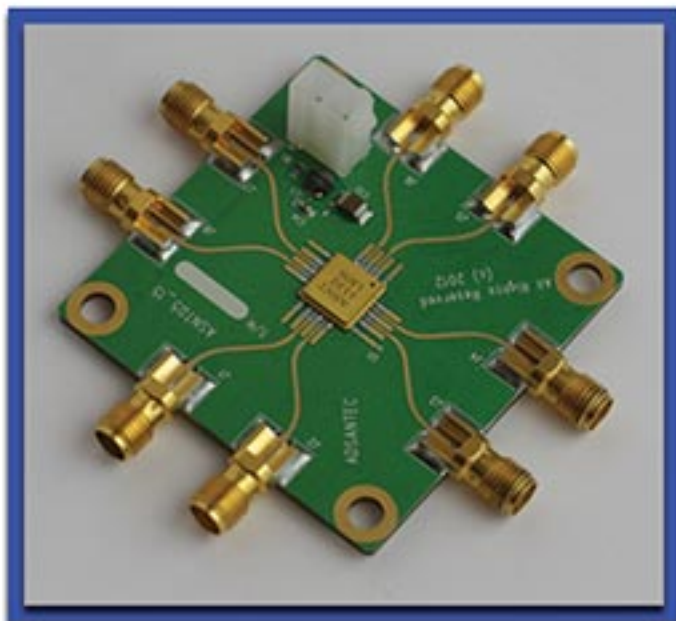


ASNT_MUX64

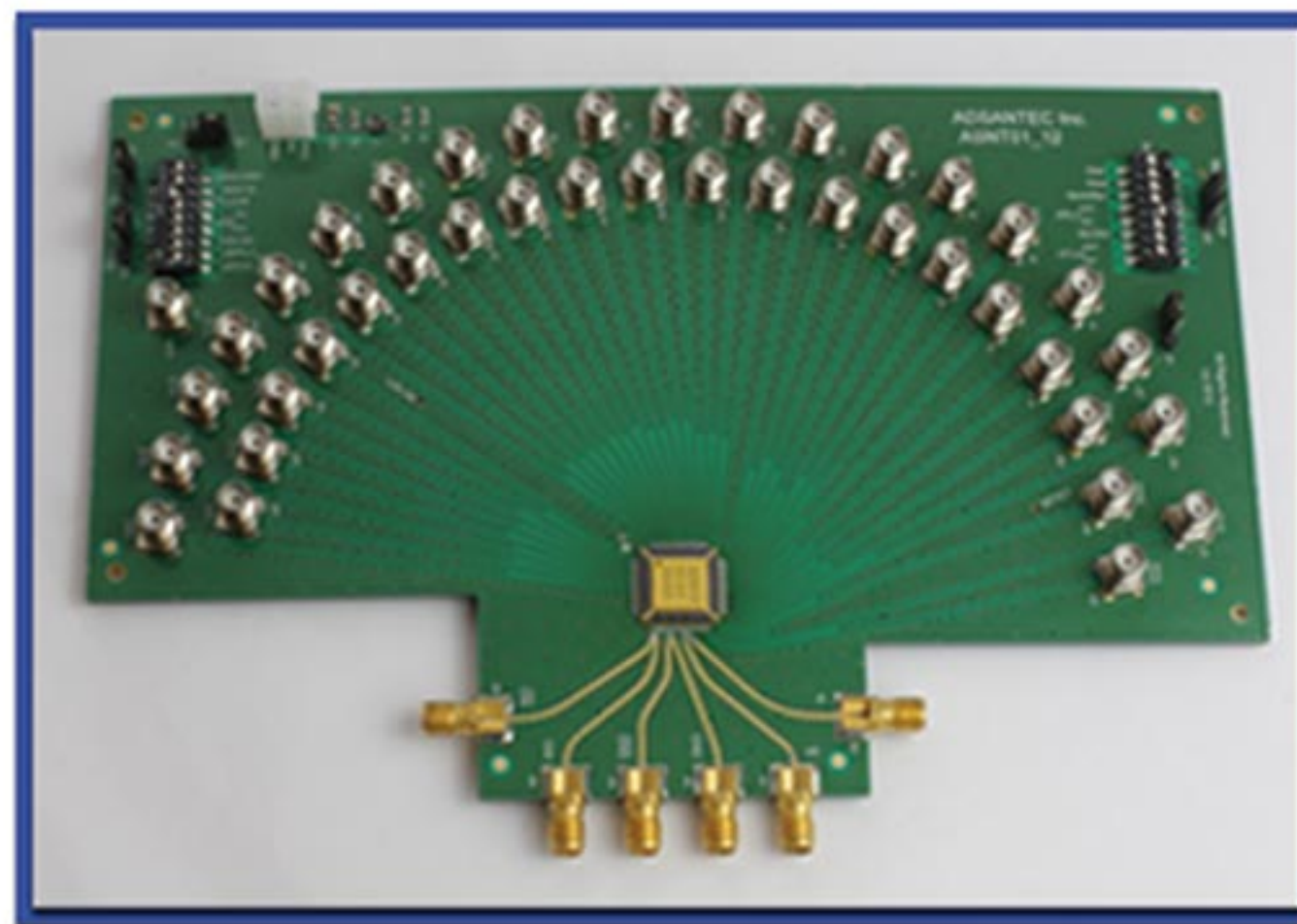


ADSANTEC

Capability Overview



ADSANTEC OFFERS EVALUATION
BOARDS FOR MOST OF IT'S IC



Company Overview



Established January 2002



Located in Torrance, CA, USA



Privately Owned Corporation



WWW.ADSANTEC.COM



20+ Employees, 2 Ph.D., 8 M.S.



ADSANTEC

中国区代理:

上海馥莱电子有限公司

上海市普陀区祁连山南路2888号A座9H

Tel: 021-5291 8556, 137-6444-1515

Fax: 021-6260 7783

Email: sales@fulai-elec.com

www.fulai-elec.com

