











HIGH SPEED LOGIC FAMILY

LIMITING AMPLIFIERS

	Function ↑	Freq (min) ↑	Freq (max) ↑	Power ↑	Package ↑
	<u>ASNT5131-KMC</u> Limiting Amplifier with Variable Control Amplitude (5.0V Power Supply)	Freq (min):DC	Freq (max):28 Gbps	Power:500 mW	Package:24-pin CQFP
	<u>ASNT5131-PQC</u> Limiting Amplifier with Variable Control Amplitude (5.0V Power Supply)	Freq (min):DC	Freq (max):17 Gbps	Power:500 mW	Package:24-pin QFN
	<u>ASNT5037-KMC</u> Limiting Amplifier with Variable Control Amplitude (3.3V Power Supply)	Freq (min):DC	Freq (max):28 Gbps	Power:660 mW	Package:24-pin CQFP
	<u>ASNT5037-PQC</u> Limiting Amplifier with Variable Control Amplitude (3.3V Power Supply)	Freq (min):DC	Freq (max):17 Gbps	Power:647 mW	Package:24-pin QFN
	<u>ASNT5136-BD</u> Limiting Amplifier	Freq (min):DC	Freq (max):45 Gbps	Power:365 mW	Package:Bare Die
	<u>ASNT5136-KMC</u> Limiting Amplifier	Freq (min):DC	Freq (max):45 Gbps	Power:365 mW	Package:24-pin CQFP

D-TYPE FLIP-FLOPS

	<u>ASNT5112-KMC</u> Low Power D-Type Flip-Flop with Increased Input Signal Sensitivity and 15GHz Analog Bandwidth	Freq (min):DC	Freq (max):32 Gbps	Power:345 mW	Package:24-pin CQFP
	<u>ASNT5116-KMM</u> Linearized Dual D-Type Flip Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	Freq (min):DC	Freq (max):32 Gbps	Power:1010 mW	Package:44-pin CQFP
	<u>ASNT5114-KMC</u> Linearized D-Type Flip Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	Freq (min):DC	Freq (max):32 Gbps	Power:530 mW	Package:24-pin CQFP
	<u>ASNT5115-KMM</u> Dual D-Type Flip-Flop with Increased Input Signal Sensitivity and Common Mode Level Adjustment	Freq (min):DC	Freq (max):32 Gbps	Power:1020 mW	Package:44-pin CQFP
	<u>ASNT5013-KMC</u> D-Type Flip-Flop with Single-Ended Output Amplitude Control up to 700mV	Freq (min):DC	Freq (max):30 Gbps	Power:510 mW	Package:24-pin CQFP
	<u>ASNT5014-KMC</u> D-Type Flip-Flop with Single-Ended Output Amplitude Control up to 1000mV	Freq (min):DC	Freq (max):25 Gbps	Power:725 mW	Package:24-pin CQFP
	<u>ASNT5113-KMC</u> D-Type Flip-Flop with Increased Input Signal Sensitivity, Common Mode Level Adjustment, and 30GHz Input Bandwidth	Freq (min):DC	Freq (max):32 Gbps	Power:510 mW	Package:24-pin CQFP
	<u>ASNT5012-KMC</u> D-Type Flip-Flop with Increased Input Signal Sensitivity and 13GHz Analog Bandwidth	Freq (min):DC	Freq (max):32 Gbps	Power:465 mW	Package:24-pin CQFP
	<u>ASNT5110-KMC</u> D-Type Flip-Flop with Amplitude Control	Freq (min):DC	Freq (max):40 Gbps	Power:300 mW	Package:24-pin CQFP



[ASNT5111-KMC](#)

Freq (min):DC

Freq (max):50 Gbps

Power:520 mW

Package:24-pin CQFP

D-Type Flip-Flop with Amplitude Control



[ASNT5010-KMC](#)

Freq (min):DC

Freq (max):32 Gbps

Power:415 mW

Package:24-pin CQFP

D-Type Flip-Flop with 12.5GHz Analog Bandwidth



[ASNT5010-PQC](#)

Freq (min):DC

Freq (max):17 Gbps

Power:415 mW

Package:24-pin QFN

D-Type Flip-Flop



[ASNT5117-KMC](#)

Freq (min):DC

Freq (max):40 Gbps

Power:726 mW

Package:24-pin CQFP

D-Type Flip Flop with Increased Input Signal Sensitivity, Output Amplitude Control, and Common Mode Level Adjustment



[ASNT5012-PQC](#)

Freq (min):DC

Freq (max):17 Gbps

Power:465 mW

Package:24-pin QFN

D-Type Flip Flop with Increased Input Signal Sensitivity

DIGITAL SIGNAL SPLITTERS



[ASNT5023-KMM](#)

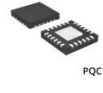
Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:1220 mW

Package:44-pin CQFP

Data/Clock Signal Distributor 1-to-4



[ASNT5023-PQC \(FANOUT BUFFER\)](#)

Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:1220 mW

Package:24-pin QFN

Data/Clock Signal Distributor 1-to-4



[ASNT5024-KMC](#)

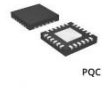
Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:780 mW

Package:24-pin CQFP

Data/Clock Signal Distributor 1-to-3 with Differential Outputs in Order



[ASNT5024-PQC](#)

Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:780 mW

Package:24-pin QFN

Data/Clock Signal Distributor 1-to-3 with Differential Outputs in Order



[ASNT5021-PQC](#)

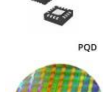
Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:780 mW

Package:24-pin QFN

Data/Clock Signal Distributor 1-to-3



[ASNT5021-PQD](#)

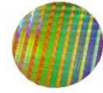
Freq (min):DC

Freq (max):26 Gbps/ 13 GHz

Power:780 mW

Package:16-pin QFN

Data/Clock Signal Distributor 1-to-3



[ASNT5022-BD](#)

Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:810 mW

Package:Bare Die

Data/Clock Signal Distributor 1-to-3



[ASNT5121-KMC](#)

Freq (min):DC

Freq (max):50 Gbps/ 32 GHz

Power:580 mW

Package:24-pin CQFP

Data/Clock Signal Distributor 1-to-3



[ASNT5121C-KMC](#)

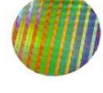
Freq (min):DC

Freq (max):50 Gbps/ 32 GHz

Power:580 mW

Package:24-pin CQFP

Data/Clock Signal Distributor 1-to-3



[ASNT5020-BD](#)

Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:560 mW

Package:Bare Die

Data/Clock Signal Distributor 1-to-2



[ASNT5020-PQC](#)

Freq (min):DC

Freq (max):28 Gbps/ 17 GHz

Power:560 mW

Package:24-pin QFN

Data/Clock Signal Distributor 1-to-2



[ASNT5020-PQD](#)

Freq (min):DC

Freq (max):26 Gbps/ 13 GHz

Power:560 mW

Package:16-pin QFN

Data/Clock Signal Distributor 1-to-2



[ASNT5121E-KMC](#)

Freq (min):DC

Freq (max):64 Gbps

Power:710 mW

Package:24-pin CQFP

Data Signal Distributor 1-to-3



[ASNT5121B-KMC](#)

Clock Signal Distributor 1-to-3 with jitter less than 140fs

Freq (min):DC

Freq (max):35 GHz Power:760 mW

Package:24-pin CQFP

[ASNT5121D-KMC](#)

Clock Signal Distributor 1-to-3

Freq (min):DC

Freq (max):35 GHz Power:760 mW

Package:24-pin CQFP

BOOLEAN LOGIC GATES



[ASNT5040-KMC](#)

XOR Logic Gate

Freq (min):DC

Freq (max):25 GHz Power:415 mW

Package:24-pin CQFP



[ASNT5040-PQC](#)

XOR Logic Gate

Freq (min):DC

Freq (max):17 GHz Power:415 mW

Package:24-pin QFN



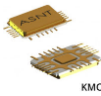
[ASNT5140-KMC](#)

XOR Logic Gate

Freq (min):DC

Freq (max):30 GHz Power:270 mW

Package:24-pin CQFP



[ASNT5160-KMC](#)

AND/OR Logic Gate

Freq (min):DC

Freq (max):50 Gbps

Power:270 mW

Package:24-pin CQFP