

ACTEL FPGAs



This product is RoHS compliant.



IGLOO nano The industry's lowest power, smallest size solution

Actel's IGLOO nano products offer groundbreaking possibilities in power, size, lead-times, operating temperature, and cost. Available in logic densities from 10,000 to 250,000 gates, the 1.2 V to 1.5 V IGLOO nano devices have been designed for high-volume applications where power and size are key decision criteria. IGLOO nano devices are perfect ASIC or ASSP replacements, yet retain the historical FPGA advantages of flexibility and quick time-to-market in low-power and small footprint profiles.



MOUSER STOCK NO.	Actel Part No.	Package Type	System Gates	Equivalent Macrocells	VersaTiles (D-flip-flops)	RAM (1,024 bits)	Max. User I/O	Price Each	
								1	25
892-AGLN010V2QNG48	AGLN010V2-QNG48	QFN-48	10,000	86	260	-	-	4.26	3.86
892-AGLN010V2UCG36	AGLN010V2-UCG36	UCG-36	10,000	86	260	-	-	4.56	4.14
892-AGLN010V5UCG36	AGLN010V5-UCG36	UCG-36	10,000	86	260	-	-	4.10	3.73
892-AGLN015V2QNG68	AGLN015V2-QNG68	QFN-68	15,000	128	384	-	-	4.71	4.28
892-AGLN020V2CSG81	AGLN020V2-CSG81	PCSP-81	20,000	172	520	-	-	5.17	4.69
892-AGLN020V2QNG68	AGLN020V2-QNG68	QFN-68	20,000	172	520	-	-	4.86	4.42
892-AGLN020V5CSG81	AGLN020V5-CSG81	PCSP-81	20,000	172	520	-	-	4.71	4.28
892-AGLN020V5QNG68	AGLN020V5-QNG68	QFN-68	20,000	172	520	-	-	4.41	4.00
892-AGLN030V2ZQNG48	AGLN030V2-ZQNG48	QFN-48	30,000	256	768	-	77	5.32	4.83
892-AGLN030V2ZCSG81	AGLN030V2-ZCSG81	PCSP-81	30,000	256	768	-	77	5.93	5.38
892-AGLN030V2ZUCG81	AGLN030V2-ZUCG81	UCG-81	30,000	256	768	-	77	5.93	5.38
892-AGLN030V2ZVQG100	AGLN030V2-ZVQG100	VQFP-100	30,000	256	768	-	77	5.93	5.38
892-AGLN030V5ZQNG48	AGLN030V5-ZQNG48	QFN-48	30,000	256	768	-	77	4.56	4.14
892-AGLN030V5ZCSG81	AGLN030V5-ZCSG81	PCSP-81	30,000	256	768	-	77	5.78	5.24
892-AGLN030V5ZUCG81	AGLN030V5-ZUCG81	UCG-81	30,000	256	768	-	77	5.78	5.24
892-AGLN030V5ZVQG100	AGLN030V5-ZVQG100	VQFP-100	30,000	256	768	-	77	5.78	5.24
892-AGLN060V2ZVQG100	AGLN060V2-ZVQG100	VQFP-100	60,000	512	1,536	18	71	9.12	8.28
892-AGLN060V5ZVQG100	AGLN060V5-ZVQG100	VQFP-100	60,000	512	1,536	18	71	8.36	7.59
892-AGLN125V2ZVQG100	AGLN125V2-ZVQG100	VQFP-100	125,000	1,024	3,072	36	71	12.46	11.32
892-AGLN125V5ZVQG100	AGLN125V5-ZVQG100	VQFP-100	125,000	1,024	3,072	36	71	11.40	10.35
892-AGLN250V2ZVQG100	AGLN250V2-ZVQG100	VQFP-100	250,000	-	6,144	36	68	15.50	14.08
892-AGLN250V5ZVQG100	AGLN250V5-ZVQG100	VQFP-100	250,000	-	6,144	36	68	13.98	12.70



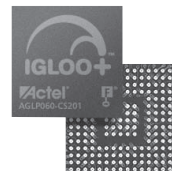
IGLOO SILVERCHIP

IGLOO PLUS FPGAs

I/O-optimized family features industry's best power-, area-, logic- and feature-per-I/O ratios

Actel's IGLOO PLUS products deliver unrivaled low-power and I/O features in a feature-rich programmable device, offering up to 64 percent more I/Os than the award-winning IGLOO products and supporting independent Schmitt trigger inputs, hot-swapping, and Flash/Freeze bus hold. Ranging from 30,000 to 125,000 gates, the 1.2 V to 1.5 V IGLOO PLUS devices have been optimized to meet the needs of I/O-intensive, power-conscious applications that require exceptional features.

MOUSER STOCK NO.	Actel Part No.	Package Type	System Gates	Typical Equivalent Macrocells	VersaTiles (D-flip-flops)	RAM (1,024 bits)	Max. User I/O	Single-Ended I/O	Differential I/O Pairs	Price Each	
										1	25
892-AGLP030V2-CSG201	AGLP030V2-CSG201	PCSP-201	30,000	256	768	-	120	120	15.35	13.94	
892-AGLP030V2-CSG289	AGLP030V2-CSG289	PCSP-289	30,000	256	768	-	120	120	21.74	19.73	
892-AGLP030V5-CSG201	AGLP030V5-CSG201	PCSP-201	30,000	256	768	-	120	120	14.29	12.97	
892-AGLP030V5-CSG289	AGLP030V5-CSG289	PCSP-289	30,000	256	768	-	120	120	20.67	18.77	
892-AGLP060V2-CSG289	AGLP060V2-CSG289	PCSP-289	60,000	512	1,536	18	157	157	25.08	22.77	
892-AGLP060V5-CSG289	AGLP060V5-CSG289	PCSP-289	60,000	512	1,536	18	157	157	23.56	21.39	
892-AGLP125V2-CSG281	AGLP125V2-CSG281	PCSP-281	125,000	1,024	3,072	36	212	212	27.51	24.98	
892-AGLP125V5-CSG281	AGLP125V5-CSG281	PCSP-281	125,000	1,024	3,072	36	212	212	25.08	22.77	
892-AGLP125V5-CSG289	AGLP125V5-CSG289	PCSP-289	125,000	1,024	3,072	36	212	212	28.27	25.67	



IGLOO PLUS

ProASIC3 FPGAs

The low-power, low-cost FPGA solution

Actel's third generation flash-based family, ProASIC3 FPGAs, offer a breakthrough in price, performance, density and features for today's most demanding high-volume, value-based applications, including automotive and consumer. The single-chip, reprogrammable, low-power ProASIC3 devices support 15,000 to 3,000,000 gates and up to 620 high-performance I/Os.

MOUSER STOCK NO.	Actel Part No.	Package Type	System Gates	Typical Equivalent Macrocells	VersaTiles (D-flip-flops)	RAM (1,024 bits)	Max. User I/O	Single-Ended I/O	Differential I/O Pairs	Price Each	
										1	25
892-A3P015-QNG68	A3P015-QNG68	QFN-68	15,000	128	384	-	49	49	-	3.95	3.59
892-A3P030-VQG100	A3P030-VQG100	VQFP-100	30,000	256	768	-	77	77	-	5.32	4.83
892-A3P060-FGG144	A3P060-FGG144	FBGA-144	60,000	512	1,536	18	96	96	-	9.58	8.69
892-A3P060-QNG132	A3P060-QNG132	QFN-132	60,000	512	1,536	18	80	80	-	8.66	7.87
892-A3P060-VQG100	A3P060-VQG100	VQFP-100	60,000	512	1,536	18	71	71	-	8.06	7.31
892-A3P125-FGG144	A3P125-FGG144	FBGA-144	125,000	1,024	3,072	36	97	97	-	11.10	10.07
892-A3P125-PQG208	A3P125-PQG208	PQFP-208	125,000	1,024	3,072	36	133	133	-	13.07	11.87
892-A3P125-QNG132	A3P125-QNG132	QFN-132	125,000	1,024	3,072	36	84	84	-	9.88	8.97
892-A3P125-TQG144	A3P125-TQG144	TQFP-144	125,000	1,024	3,072	36	100	100	-	12.92	11.73
892-A3P250-FGG144	A3P250-FGG144	FBGA-144	250,000	2,048	6,144	36	97	97	24	15.20	13.80
892-A3P250-FGG256	A3P250-FGG256	FBGA-256	250,000	2,048	6,144	36	157	157	38	18.85	17.11
892-A3P250-PQG208	A3P250-PQG208	PQFP-208	250,000	2,048	6,144	36	151	151	34	17.48	15.87
892-A3P250-QNG132	A3P250-QNG132	QFN-132	250,000	2,048	6,144	36	87	87	19	13.22	12.01
892-A3P250-VQG100	A3P250-VQG100	VQFP-100	250,000	2,048	6,144	36	68	68	13	12.62	11.45
892-A3P400-FGG144	A3P400-FGG144	FBGA-144	400,000	-	9,216	54	97	97	25	28.73	26.08
892-A3P400-FGG256	A3P400-FGG256	FBGA-256	400,000	-	9,216	54	178	178	38	32.07	29.12
892-A3P400-FGG484	A3P400-FGG484	FBGA-484	400,000	-	9,216	54	194	194	38	41.19	37.40
892-A3P400-PQG208	A3P400-PQG208	PQFP-208	400,000	-	9,216	54	151	151	34	32.38	29.39
892-A3P600-FGG256	A3P600-FGG256	FBGA-256	600,000	-	13,824	108	177	177	43	41.19	37.40
892-A3P600-FGG484	A3P600-FGG484	FBGA-484	600,000	-	13,824	108	235	235	74	50.46	45.82
892-A3P600-PQG208	A3P600-PQG208	PQFP-208	600,000	-	13,824	108	154	154	35	41.80	37.95
892-A3P1000-FGG144	A3P1000-FGG144	FBGA-144	1,000,000	-	24,576	144	97	97	25	59.58	54.10
892-A3P1000-FGG256	A3P1000-FGG256	FBGA-256	1,000,000	-	24,576	144	177	177	44	63.23	57.41
892-A3P1000-FGG484	A3P1000-FGG484	FBGA-484	1,000,000	-	24,576	144	300	300	74	72.66	65.96
892-A3P1000-PQG208	A3P1000-PQG208	PQFP-208	1,000,000	-	24,576	144	154	154	35	65.51	59.48
892-A3PE1500-FGG484	A3PE1500-FGG484	FBGA-484	1,500,000	-	38,400	270	280	280	139	149.74	143.37
892-A3PE1500-FGG676	A3PE1500-FGG676	FBGA-676	1,500,000	-	38,400	270	444	444	222	160.18	153.36
892-A3PE1500-PQG208	A3PE1500-PQG208	PQFP-208	1,500,000	-	38,400	270	147	147	65	139.87	133.92



ProASIC3

ProASIC3 nano

The lowest cost solution with enhanced I/O capabilities

Actel's innovative ProASIC3 nano devices bring a new level of value and flexibility to high-volume markets. When measured against the typical project metrics of performance, cost, flexibility, and time-to-market, ProASIC3 nano devices provide an attractive alternative to ASICs and ASSPs in fast-moving or highly competitive markets. Customer-driven total system cost reduction was a key decision criteria for the ProASIC3 nano program. Reduced device cost, availability of known good die, a single-chip implementation, and a broad selection of small footprint packages, all contribute to lower total system costs.



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								1	25
892-A3PN030ZQNG48	A3PN030-ZQNG48	QNG48	30,000	256	768	-	77	3.50	3.17
892-A3PN030ZQNG68	A3PN030-ZQNG68	QNG68	30,000	256	768	-	77	3.80	3.45
892-A3PN030ZVQG100	A3PN030-ZVQG100	VQFP-100	30,000	256	768	-	77	4.10	3.73
892-A3PN060ZVQG100	A3PN060-ZVQG100	VQFP-100	60,000	512	1,536	18	71	6.08	5.52
892-A3PN125ZVQG100	A3PN125-ZVQG100	VQFP-100	125,000	1,024	3,072	36	71	8.36	7.59
892-A3PN250ZVQG100	A3PN250-ZVQG100	VQFP-100	250,000	-	6,144	36	68	10.34	9.38

