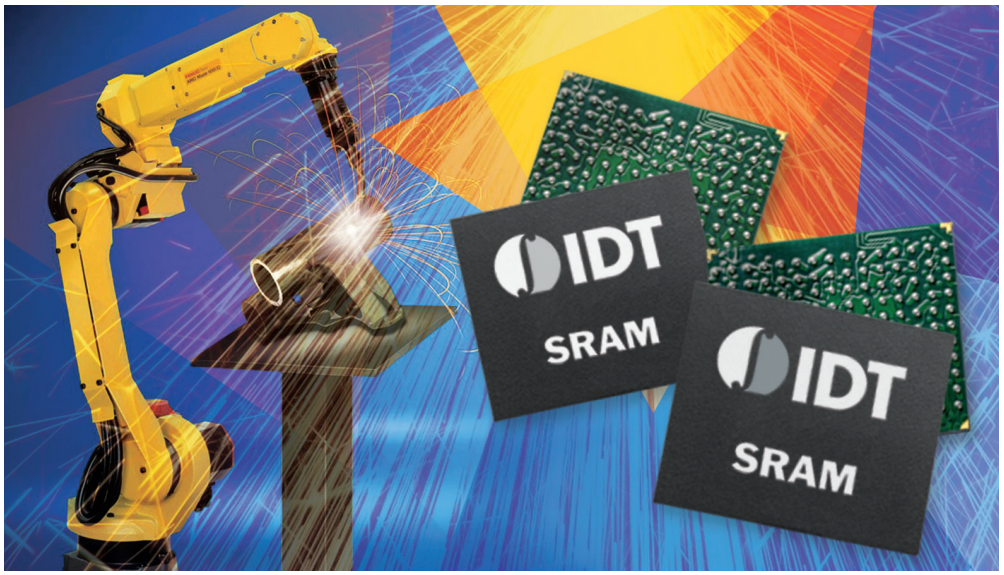
Integrated Device Technology

IDT Worldclass SRAM Products

With three decades of SRAM experience, IDT offers a broad line of high-speed, industry-standard SRAMs that are used in a wide range of markets.

IDT SRAM product offerings include:

- A range of products from 16-Kbit to 18-Mbit densities
- Synchronous and asynchronous architectures
- IDT-invented ZBT technology, the communications SRAM standard



ASYNCHRONOUS SRAMS

IDT offers a line of asynch SRAM's that use fully static asynchronous circuitry, requiring no clocks or refresh for operation.

Part Number	Density (Kb)	Bus Width (bits)	Core Voltage (V)	Pkg. Code	Organization	I/O Voltage (V)	Access Time (ns)	Temp. Range
5962-38294	64	8	5	CD28, SD28	8K x 8	5	20, 25, 35, 45, 55, 70	M
5962-85525	64	8	5	CD28	8K x 8	5	85	M
5962-88552	256	8	5	CD28, SD28	32K x 8	5	25, 45, 55, 70, 100	M
5962-88662	256	8	5	CD28, SD28	32K x 8	5	25, 35, 45, 55, 70, 100	M
5962-88740	16	8	5	SD24	2K x 8	5	25, 35	M
5962-89690	16	8	5	SD24	2K x 8	5	20, 25	M
84036	16	8	5	CD24, SD24	2K x 8	5	45, 55, 70, 90, 120	M
6116	16	8	5	CD24, PSG24, PTG24, SD24	2K x 8	5	15, 20, 25, 35, 45, 55, 70, 90, 120, 150	I,M,C
71016	1024	16	5	PBG44, PHG44	64K x 16	5	12, 15, 20	I,C
71024	1024	8	5	PBG32, PJG32	128K x 8	5	12, 15, 20	I,C
71124	1024	8	5	PBG32	128K x 8	5	12, 15, 20	I,C
71256	256	8	5	CD28, PJG28, SD28	32K x 8	5	20, 25, 35, 45, 55, 70, 85, 100	I,M,C
71256SA	256	8	5	PJG28, PTG28, PZG28	32K x 8	5	12, 15, 20, 25	I,C

ASYNCHRONOUS SRAMS

Part Number	Density (Kb)	Bus Width (bits)	Core Voltage (V)	Pkg. Code	Organization	I/O Voltage (V)	Access Time (ns)	Temp. Range
7164	64	8	5	CD28, PJG28, PTG28, SD28	8K x 8	5	20, 25, 35, 45, 55, 70, 85, 100	I,M,C
71V016	1024	16	3.3	BF48, BFG48, PBG44, PHG44	64K x 16	3.3	10, 12, 15, 20	I,C
71V124	1024	8	3.3	PBG32, PHG32, PJG32	128K x 8	3.3	10, 12, 15	I,C
71V256SA	256	8	3.3	PJG28, PZG28	32K x 8	3.3	12, 15, 20	I,C
71V416	4096	16	3.3	BE48, BEG48, PBG44, PHG44	256K x 16	3.3	10, 12, 15	I,C
71V424	4096	8	3.3	PBG36, PHG44	512K x 8	3.3	10, 12, 15	I,C

SYNCHRONOUS BURST

The burst mode feature offers the highest level of performance to the system designer. An internal burst address counter accepts the first cycle address from the processor, initiating the access sequence. The first cycle of output data will be pipelined for one cycle before it is available on the next rising clock edge.

Part Number	Density (Kb)	Bus Width (bits)	Core Voltage (V)	Pkg. Code	Organization	I/O Voltage (V)	I/O Frequency (MHz) /Access Time	Temp. Range	Output Type
71V25761	4608	36	3.3	BG119, PKG100	128K x 36	2.5	166, 183, 200	I,C	Pipelined
71V35761	128	36	3.3	BG119, BGG119, BQG165, PKG100	128K x 36	3.3	166, 183, 200	I,C	Pipelined
71V3576	128	36	3.3	PKG100	128K x 36	3.3	133, 150	I,C	Pipelined
71V3577	128	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	128K x 36	3.3	6.5ns, 7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V3578	256	18	3.3	PKG100	256K x 18	3.3	133, 150	I,C	Pipelined
71V3579	256	18	3.3	PKG100	256K x 18	3.3	6.5ns, 7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V432	32	32	3.3	PKG100	32K x 32	3.3	5.0ns, 6.0ns	I,C	Pipelined
71V632	64	32	3.3	PKG100	64K x 32	3.3	5.0ns, 6.0ns, 7.0ns	I,C	Pipelined
71V67602	256	36	3.3	BGG119, PKG100	256K x 36	3.3	133, 150, 166	I,C	Pipelined
71V67603	256	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	256K x 36	3.3	133, 150, 166	I,C	Pipelined
71V67703	512	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	256K x 36	3.3	7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V67803	512	18	3.3	BG119, BGG119, BQ165, BQG165, PKG100	256K x 36, 512K x 18	3.3	133, 150, 166	I,C	Pipelined
71V67903	512	18	3.3	BG119, BQ165, BQG165, PKG100	512K x 18	3.3	7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough

ZERO BUS TURNAROUND (ZBT)

The IDT ZBT parts are designed to eliminate dead bus cycles when turning the bus around between reads and writes, or writes and reads. Thus they have been given the name ZBT, or Zero Bus Turnaround. Flowthrough parts are listed by tCD speed in ns, all other sync parts are listed by I/O Frequency in MHz.

Part Number	Density (Kb)	Bus Width (bits)	Core Voltage (V)	Pkg. Code	Organization	I/O Voltage (V)	I/O Frequency (MHz) / Access Time	Temp. Range	Output Type
71T75602	18432	36	2.5	BG119, BGG119, PKG100	512K x 36	2.5	100, 133, 150, 166	I,C	Pipelined
71T75802	18432	18	2.5	BG119, BGG119, PKG100	1024K x 18	2.5	100, 133, 150, 166, 200	I,C	Pipelined
71T75902	18432	18	2.5	BG119, BGG119, PKG100	1024K x 18	2.5	7.5ns, 8.5ns	I,C	Flowthrough
71V2546	4608	36	3.3	BG119, PKG100	128K x 36	2.5	100, 133, 150	I,C	Pipelined
71V2556	4608	36	3.3	BG119, BGG119, PKG100	128K x 36	2.5	100, 133, 150, 166	I,C	Pipelined
71V3556	4608	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	128K x 36	2.5	100, 133, 150, 166	I,C	Pipelined
71V3557	128	36	3.3	BG119, BGG119, PKG100	128K x 36	2.5	7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V3558	256	18	3.3	BQG165, PKG100	256K x 18	2.5	100, 133, 166	I,C	Pipelined
71V3559	256	18	3.3	BG119, BQ165, BQG165, PKG100	256K x 18	2.5	7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V546	128	36	3.3	PKG100	128K x 36	2.5	100, 133	I,C	Pipelined
71V547	128	36	3.3	PKG100	128K x 36	2.5	7.5ns, 8.0ns,10.0ns	I,C	Flowthrough
71V65603	256	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	256K x 36	2.5	100, 133, 150	I,C	Pipelined
71V65703	256	36	3.3	BG119, BGG119, BQ165, BQG165, PKG100	256K x 36	2.5	7.5ns, 8.0ns, 8.5ns	I,C	Flowthrough
71V65803	512	18	3.3	BG119, BGG119, BQ165, BQG165, PKG100	512K x 18	2.5	100, 133, 150	I,C	Pipelined
71V65903	512	18	3.3	BG119, BGG119, BQ165, BQG165, PKG100	512K x 18	2.5	8.0ns, 8.5ns	I,C	Flowthrough

Package Code (Use for Package Search)	Package Description	Pin Count	Description	Pb or Green	Top Mark	Dimensions				Devices Per Reel	Devices Per Tray / Tube	JEDEX ID	Class
						Pitch (mm)	Length (mm)	Width (mm)	Thickness (mm)				
BE48, BEG48	CABGA	48	CHIP ARAY BGA 9.0 X 9.0 X MM X 0.75 PITC	Pb, Green	BE, BEG	0.75	9.00	9.00	1.20	2000	250	MO-028-AA	Plastic
BF48, BFG48	CABGA	48	CHIP ARRAY BGA 7.0 X 7.0 MM X 0.75 MM PI	Pb, Green	BF, BFG	0.75	7.00	7.00	1.40	2000	360	MO-028-AA	Plastic
BG119, BGG119	PBGA	119	PBGA 14. X 22.0 MM X 1.27 MM PITCH	Pb, Green	BG, BGG	1.27	14.00	22.00	2.15	1000	84	MO-028-AA	Plastic
BQ165, BQG165	CABGA	165	CHIP ARRAY BGA 13.0 X 15.0 MM X 1.0 MM P	Pb, Green	BQ, BQG	1.00	15.00	13.00	1.20	2000	136	MO-028-AA	Plastic
CD24	CDIP	24	CERDIP 600 MIL	Pb	D	2.54	32.00	15.24	2.90	-	15	MO-028-AA	Hermetic
CD28	CDIP	28	CERDIP 600 MIL	Pb	D	2.54	37.20	15.24	1.65	-	13	MO-028-AA	Hermetic
PBG32	SOJ	32	SOIC 400 MIL J-BEND	Green	YG	1.27	20.90	10.20	2.20	1000	23	MO-028-AA	Plastic
PBG36	SOJ	36	SOIC 400 MIL J-BEND	Green	YG	1.27	23.40	10.20	2.20	500	20	MO-028-AA	Plastic
PBG44	SOJ	44	SOIC 400 MIL J-BEND	Green	YG	1.27	28.60	10.20	2.90	500	16	MO-028-AA	Plastic
PHG32	TSOP	32	TSOP TYPE II 10.2 X 21.0 MM	Green	PHG	1.27	20.95	10.16	1.00	1500	23	MO-028-AA	Plastic
PHG44	TSOP	44	TSOP TYPE II 10.2 X 18.4 MM	Green	PHG	0.80	18.41	10.16	1.00	1500	26	MO-028-AA	Plastic
PJG28	SOJ	28	SOIC 300 MIL-J BEND	Green	YG	1.27	17.90	7.60	2.67	1000	27	MO-028-AA	Plastic
PJG32	SOJ	32	SOIC 300 MIL-J BEND	Green	TYG	1.27	21.95	7.60	2.67	1000	23	MO-028-AA	Plastic
PKG100	TQFP	100	TQFP 14.0 X 20.0 X 1.4 MM	Green	PFG	0.65	20.00	14.00	1.40	1000	72	MO-028-AA	Plastic
PSG24	SOIC	24	SOIC 300 MIL	Green	SOG	1.27	15.40	7.60	2.34	1000	31	MO-028-AA	Plastic
PTG24	PDIP	24	PLASTIC DIP 300 MIL	Green	TPG	2.54	31.75	7.62	3.30	-	15	MO-028-AA	Plastic
PTG28	PDIP	28	PLASTIC DIP 300 MIL	Green	TPG	2.54	34.30	7.62	3.30	-	14	MO-028-AA	Plastic
PZG28	TSOP	28	TSOP TYPE I 8 X 13.4MM	Green	PZG	0.55	8.00	11.80	1.00	2000	234	MO-028-AA	Plastic
SD24	CDIP	24	CERDIP 300 MIL	Pb	TD	2.54	32.51	7.62	3.56	-	15	MO-028-AA	Hermetic
SD28	CDIP	28	CERDIP 300 MIL	Pb	TD	2.54	37.72	7.62	3.56	-	13	MO-028-AA	Hermetic