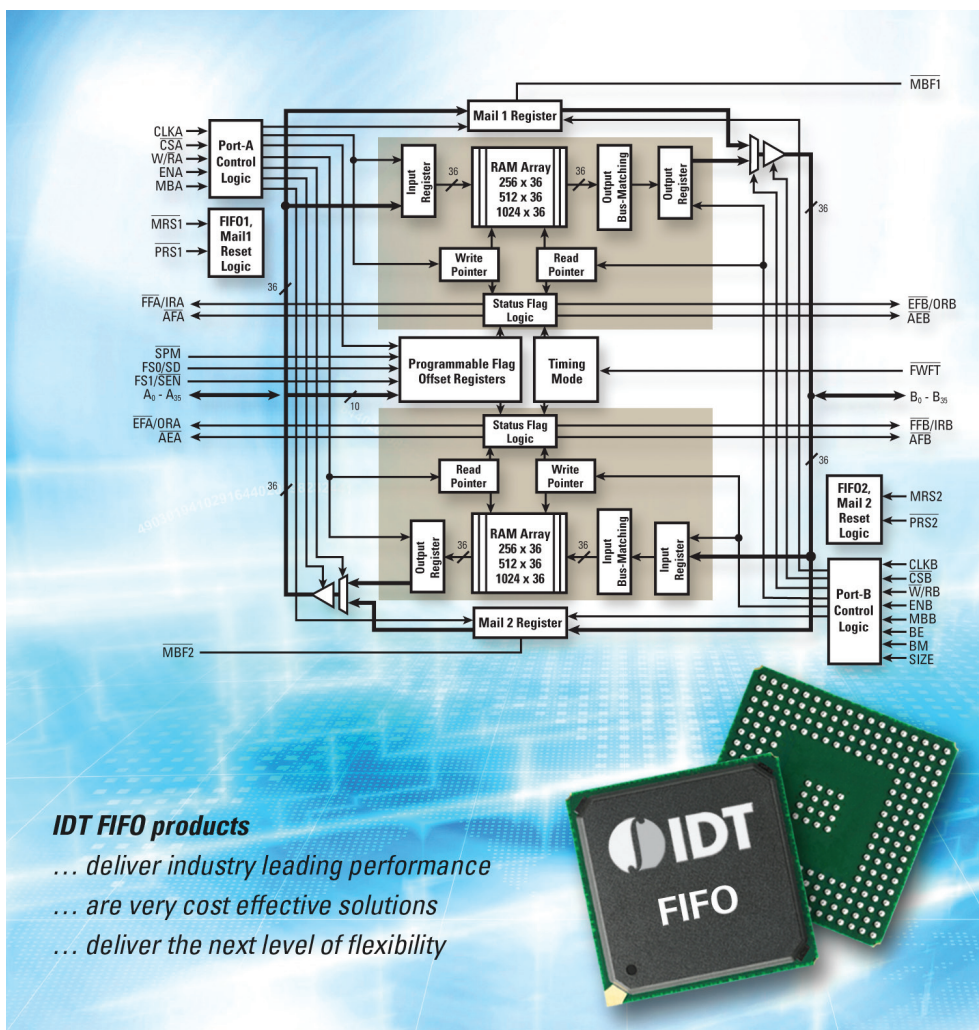


FIFO Products

IDT is the FIFO market share leader with more than 200 synchronous, asynchronous and bi-directional products to help designers solve interchip communications protocol problems, such as rate matching, buffering and bus matching.

FIFO PRODUCT BENEFITS

- Superior off-the-shelf solutions for high-performance applications, such as networking, graphics, medical imaging, data acquisition and industrial automation
- IDT is the proven market leader in military FIFO products. IDT military products are QML certified. Hermetic package options include:
 - C, D, TD – Ceramic Dual Inline Package;
 - E – Cerpak
 - F – Flatpack
 - G - Pin Grid Array;
 - L – Leadless Chip Carrier
- Standard products that help designers solve interchip communications protocol problems, such as rate matching, buffering and bus matching



ASYNCHRONOUS FIFOS — IDT Asynchronous FIFOs are a type of memory that allows data processing to continue before the transmission has finished. It does this by preventing data overflow and underflow and includes logic to enable expansion capability in both word size and depth.

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	Access Time (ns)
7200	5	9	2	PE28, PEG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	256 x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 50
7201	5	9	4	CD28, LC32, PD28, PDG28, PE28, PEG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	512 x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 50, 80
7202	5	9	9	CD28, LC32, PD28, PE28, PEG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	1K x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 50
7203	5	9	18	CD28, LC32, PD28, PDG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	2K x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 40, 50

ASYNCHRONOUS FIFOs

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	Access Time (ns)
7204	5	9	36	CD28, LC32, PD28, PDG28, PE28, PEG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	4K x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 50
7205	5	9	72	CD28, LC32, PD28, PDG28, PL32, PLG32, PT28, PTG28, SD28	5.0 V TTL	8K x 9	I,M,C	Uni-directional	12, 15, 20, 25, 30, 35, 50
7206	5	9	144	CD28, LC32, PD28, PDG28, PL32, PLG32, PT28, PTG28	5.0 V TTL	16K x 9	I,M,C	Uni-directional	15, 20, 25, 30, 35, 50
7207	5	9	288	CD28, LC32, PD28, PDG28, PL32, PLG32	5.0 V TTL	32K x 9	I,M,C	Uni-directional	15, 20, 25, 30, 35, 50
7208	5	9	512	PL32, PLG32	5.0 V TTL	64K x 9	I,C	Uni-directional	20, 25, 35
72125	5	16	16	PE28, PEG28, PT28, PTG28	5.0 V TTL	1K x 16	C	Parallel/Serial FIFOs	25, 50
72401	5	4	0.256	CD16, PD16, PDG16, PS16, PSG16	5.0 V TTL	64 x 4	M,C	Uni-directional	10, 15, 25, 35, 45 MHz*
72403	5	4	0.256	CD16, PD16, PDG16, PS16, PSG16	5.0 V TTL	64 x 4	M,C	Uni-directional	10, 15, 25, 35, 45 MHz*
72413	5	5	0.32	PS20, PSG20	5.0 V TTL	64 x 5	C	Uni-directional	25, 35, 45 MHz*
7280	5	9	2	PA56, PAG56	5.0 V TTL	256 x 9	I,C	Dual FIFO	12, 15, 20
7281	5	9	4	PA56, PAG56	5.0 V TTL	512 x 9	I,C	Dual FIFO	12, 15, 20
7282	5	9	9	PA56, PAG56	5.0 V TTL	1K x 9	I,C	Dual FIFO	12, 15, 20
7283	5	9	18	PA56, PAG56	5.0 V TTL	2K x 9	I,C	Dual FIFO	12, 15, 20
7284	5	9	36	PA56, PAG56	5.0 V TTL	4K x 9	I,C	Dual FIFO	12, 15, 20
7285	5	9	72	PA56, PAG56	5.0 V TTL	8K x 9	I,C	Dual FIFO	12, 15, 20
5962-87531	5	9	4	CD28, LC32, SD28	5.0 V TTL	512 x 9	M	Uni-directional	30, 50, 80
5962-88669	5	9	18	LC32, SD28	5.0 V TTL	2K x 9	M	Uni-directional	20, 30
5962-89523	5	4	0.256	CD16	5.0 V TTL	64 x 4	M	Uni-directional	10, 15, 25, 35 MHz*
5962-89536	5	9	9	CD28, LC32, SD28	5.0 V TTL	1K x 9	M	Uni-directional	20, 30
5962-89567	5	9	18	CD28, LC32	5.0 V TTL	2K x 9	M	Uni-directional	40
5962-89568	5	9	36	CD28, LC32, SD28	5.0 V TTL	4K x 9	M	Uni-directional	20, 30
5962-89666	5	9	2	SD28	5.0 V TTL	256 x 9	M	Uni-directional	30
5962-89863	5	9	4	SD28	5.0 V TTL	512 x 9	M	Uni-directional	30, 50
5962-91677	5	9	72	CD28, LC32, SD28	5.0 V TTL	8K x 9	M	Uni-directional	30
5962-93177	5	9	144	CD28, LC32	5.0 V TTL	16K x 9	M	Uni-directional	20, 30
72V01	3.3	9	4	PL32, PLG32	3.3 V LVTTTL	512 x 9	I,C	Uni-directional	15, 25, 35
72V02	3.3	9	9	PL32, PLG32	3.3 V LVTTTL	1K x 9	I,C	Uni-directional	15, 25, 35
72V03	3.3	9	18	PL32, PLG32	3.3 V LVTTTL	2K x 9	I,C	Uni-directional	15, 25, 35
72V04	3.3	9	36	PL32, PLG32	3.3 V LVTTTL	4K x 9	I,C	Uni-directional	15, 25, 35
72V05	3.3	9	72	PL32, PLG32	3.3 V LVTTTL	8K x 9	I,C	Uni-directional	15, 25, 35
72V06	3.3	9	144	PL32, PLG32	3.3 V LVTTTL	16K x 9	I,C	Uni-directional	15, 25, 35
72V81	3.3	9	4	PA56, PAG56	3.3 V LVTTTL	512 x 9	I,C	Dual FIFO	15, 20
72V82	3.3	9	9	PA56, PAG56	3.3 V LVTTTL	1K x 9	I,C	Dual FIFO	15, 20
72V83	3.3	9	18	PA56, PAG56	3.3 V LVTTTL	2K x 9	I,C	Dual FIFO	15, 20
72V84	3.3	9	36	PA56, PAG56	3.3 V LVTTTL	4K x 9	C	Dual FIFO	15, 20
72V85	3.3	9	72	PA56, PAG56	3.3 V LVTTTL	8K x 9	C	Dual FIFO	15, 20

* Shift frequency in MHz

Bi-Directional FIFOS — IDT Bi-Directional FIFOs can transfer data in two directions, to enable optimized inter-processor and inter-DSP communication. To achieve the bi-directional transfer capability, the highly integrated devices provide two side-by-side FIFO memory arrays. They accelerate cycle times, reduce board space, and allow more efficient bus utilization.

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	Interface	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72605	5	18	9	PL68, PLG68, PN64, PNG64	Synchronous	5.0 V TTL	256 x 18 x 2	C	Bi-directional	20, 28, 40, 50
72615	5	18	18	PL68, PLG68, PN64, PNG64	Synchronous	5.0 V TTL	512 x 18 x 2	C	Bi-directional	20, 28, 40, 50

Queuing — The IDT FIFO multi-queue flow-control device is a fully programmable device, providing the user with flexibility in how queues are configured. The IDT multi-queue device services conflicting data demands for the best product performance.

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8)	Interface	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72V51253	3.3	18	2048	BB256, BBG256	Synchronous	3.3 V LVTTTL	32K x 18 x 4, 64K x 9 x 4	C	Multi-Queue	133, 166
72V51256	3.3	36	2048	BB256, BBG256	Synchronous	3.3 V LVTTTL	16K x 36 x 4	C	Multi-Queue	133, 166
72V51443	3.3	18	1024	BB256, BBG256	Synchronous	3.3 V LVTTTL	4K x 18 x 16, 8K x 9 x 16	I,C	Multi-Queue	133, 166
72V51446	3.3	36	1024	BB256, BBG256	Synchronous	3.3 V LVTTTL	2K x 36 x 16	C	Multi-Queue	133, 166
72V51456	3.3	36	2048	BB256, BBG256	Synchronous	3.3 V LVTTTL	4K x 36 x 16	C	Multi-Queue	133, 166

SYNCHRONOUS FIFOS — IDT Synchronous FIFOs are particularly appropriate for network, video, telecommunications, data communications and other applications that need to buffer large amounts of data.

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72200	5	8	2	PT28, PTG28	5.0 V TTL	256 x 8	C	Uni-directional	40, 66, 100
72201	5	9	2	PL32, PLG32, PR32, PRG32	5.0 V TTL	256 x 9	I,C	Uni-directional	40, 66, 100
72205	5	18	4	PL68, PLG68, PN64, PNG64, PP64, PPG64	5.0 V TTL	256 x 18	I,C	Uni-directional	40, 66, 100
72210	5	8	4	PT28, PTG28	5.0 V TTL	512 x 8	C	Uni-directional	40, 66, 100
72211	5	9	4	PL32, PLG32, PR32, PRG32	5.0 V TTL	512 x 9	I,C	Uni-directional	40, 66, 100
72215	5	18	9	PL68, PLG68, PN64, PNG64, PP64, PPG64	5.0 V TTL	512 x 18	I,C	Uni-directional	40, 66, 100
72220	5	8	8	PT28, PTG28	5.0 V TTL	1K x 8	C	Uni-directional	40, 66, 100
72221	5	9	9	PL32, PLG32, PR32, PRG32	5.0 V TTL	1K x 9	I,C	Uni-directional	40, 66, 100
72225	5	18	18	PL68, PLG68, PN64, PNG64, PP64, PPG64	5.0 V TTL	1K x 18	I,C	Uni-directional	40, 66, 100
72230	5	8	16	PT28, PTG28	5.0 V TTL	2K x 8	C	Uni-directional	40, 66, 100
72231	5	9	18	PL32, PLG32, PR32, PRG32	5.0 V TTL	2K x 9	I,C	Uni-directional	40, 66, 100
72235	5	18	36	PL68, PLG68, PN64, PNG64, PP64, PPG64	5.0 V TTL	2K x 18	I,C	Uni-directional	40, 66, 100
72240	5	8	32	PT28, PTG28	5.0 V TTL	4K x 8	C	Uni-directional	40, 66, 100

SYNCHRONOUS FIFOs

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72241	5	9	36	PL32, PLG32, PR32, PRG32	5.0 V TTL	4K x 9	I,C	Uni-directional	40, 66, 100
72245	5	18	64	PL68, PLG68, PN64, PNG64, PP64, PPG64	5.0 V TTL	4K x 18	I,C	Uni-directional	40, 66, 100
72251	5	9	72	PL32, PLG32, PR32, PRG32	5.0 V TTL	8K x 9	I,C	Uni-directional	40, 66, 100
72255	5	18	144	PN64, PNG64, PP64, PPG64	5.0 V TTL	8K x 18	I,C	Uni-directional	50, 66, 100
72261	5	9	144	PN64, PNG64, PP64, PPG64	5.0 V TTL	16K x 9	I,C	Uni-directional	50, 66, 100
72265	5	18	288	PN64, PNG64, PP64, PPG64	5.0 V TTL	16K x 18	I,C	Uni-directional	50, 66, 100
72271	5	9	288	PN64, PNG64, PP64, PPG64	5.0 V TTL	32K x 9	I,C	Uni-directional	50, 66, 100
72275	5	18	512	PN64, PNG64, PP64, PPG64	5.0 V TTL	32K x 18	I,C	Uni-directional	50, 66, 100
72281	5	9	512	PN64, PNG64, PP64, PPG64	5.0 V TTL	64K x 9	I,C	Uni-directional	50, 66, 100
72285	5	18	1024	PN64, PNG64, PP64, PPG64	5.0 V TTL	64K x 18	I,C	Uni-directional	50, 66, 100
72291	5	9	1024	PN64, PNG64, PP64, PPG64	5.0 V TTL	128K x 9	I,C	Uni-directional	50, 66, 100
723616	5	36	4	PK128, PKG128	5.0 V TTL	64 x 36 x 2	C	Triple Bus	50, 66
723623	5	36	9	PK128, PKG128	5.0 V TTL	256 x 36	I,C	Uni-directional	66, 83
723624	5	36	18	PK128, PKG128	5.0 V TTL	256 x 36 x 2	C	Bi-directional	66, 83
723626	5	36	18	PK128, PKG128	5.0 V TTL	256 x 36 x 2	C	Triple Bus	66, 83
723633	5	36	9	PK128, PKG128	5.0 V TTL	512 x 36	C	Uni-directional	66, 83
723634	5	36	36	PK128, PKG128	5.0 V TTL	512 x 36 x 2	C	Bi-directional	66, 83
723636	5	36	36	PK128, PKG128	5.0 V TTL	512 x 36 x 2	C	Triple Bus	66, 83
723641	5	36	36	PNG120	5.0 V TTL	1K x 36	I,C	Uni-directional	50, 66
723643	5	36	36	PK128, PKG128	5.0 V TTL	1K x 36	C	Uni-directional	66, 83
723644	5	36	72	PK128, PKG128	5.0 V TTL	1K x 36 x 2	C	Bi-directional	66, 83
723646	5	36	72	PK128, PKG128	5.0 V TTL	1K x 36 x 2	C	Triple Bus	66, 83
723656	5	36	144	PK128, PKG128	5.0 V TTL	2K x 36 x 2	C	Triple Bus	66
723663	5	36	144	PK128, PKG128	5.0 V TTL	4K x 36	C	Uni-directional	66, 83
723672	5	36	512	PNG120	5.0 V TTL	8K x 36 x 2	C	Bi-directional	66, 83
723673	5	36	288	PK128, PKG128	5.0 V TTL	8K x 36	C	Uni-directional	66, 83
723676	5	36	512	PK128, PKG128	5.0 V TTL	8K x 36 x 2	C	Triple Bus	66, 83
72420	5	8	0.5	PT28, PTG28	5.0 V TTL	64 x 8	C	Uni-directional	40, 66, 100
72421	5	9	1	PL32, PLG32, PR32, PRG32	5.0 V TTL	64 x 9	I,C	Uni-directional	40, 66, 100
72801	5	9	2	PN64, PNG64, PP64, PPG64	5.0 V TTL	256 x 9	I,C	Dual FIFO	40, 66, 100
72805	5	18	4	PK128, PKG128	5.0 V TTL	256 x 18	C	Dual FIFO	40, 66, 100
72811	5	9	4	PN64, PNG64, PP64, PPG64	5.0 V TTL	512 x 9	I,C	Dual FIFO	40, 66, 100
72815	5	18	9	PK128, PKG128	5.0 V TTL	512 x 18	I,C	Dual FIFO	40, 66, 100
72821	5	9	9	PN64, PNG64, PP64, PPG64	5.0 V TTL	1K x 9	I,C	Dual FIFO	40, 66, 100
72825	5	18	18	BG121, BGG121, PK128, PKG128	5.0 V TTL	1K x 18	I,C	Dual FIFO	40, 66, 100
72831	5	9	18	PN64, PNG64, PP64, PPG64	5.0 V TTL	2K x 9	I,C	Dual FIFO	40, 66, 100
72841	5	9	36	PN64, PNG64, PP64, PPG64	5.0 V TTL	4K x 9	I,C	Dual FIFO	40, 66, 100
72845	5	18	72	PK128, PKG128	5.0 V TTL	4K x 18	I,C	Dual FIFO	40, 66, 100
72851	5	9	72	PN64, PNG64, PP64, PPG64	5.0 V TTL	8K x 9	I,C	Dual FIFO	40, 66, 100

SYNCHRONOUS FIFOS

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72T18105	2.5	18	2048	BB240, BBG240	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	128K x 18, 256K x 9	I,C	Uni-directional	100, 150, 200, 225
72T18115	2.5	18	4096	BB240, BBG240	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	256K x 18, 512K x 9	I,C	Uni-directional	100, 150, 200, 225
72T18125	2.5	18	9216	BB240, BBG240	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	1M x 9, 512K x 18	I,C	Uni-directional	100, 150, 200, 225
72T1845	2.5	18	36	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	2K x 18, 4K x 9	I,C	Uni-directional	150, 200, 225
72T1855	2.5	18	72	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	4K x 18, 8K x 9	I,C	Uni-directional	150, 200, 225
72T1865	2.5	18	144	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	16K x 9, 8K x 18	I,C	Uni-directional	150, 200, 225
72T1875	2.5	18	288	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	16K x 18, 32K x 9	I,C	Uni-directional	150, 200, 225
72T1885	2.5	18	512	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	32K x 18, 64K x 9	I,C	Uni-directional	150, 200, 225
72T1895	2.5	18	1024	BB144, BBG144	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	128K x 9, 64K x 18	I,C	Uni-directional	150, 200, 225
72T36105	2.5	36	2048	BB240, BBG240	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	64K x 36	I,C	Uni-directional	100, 150, 200, 225
72T36115	2.5	36	4096	BB240, BBG240	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	128K x 36	I,C	Uni-directional	100, 150, 200, 225
72T36125	2.5	36	9216	BB240, BBG240	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	256K x 36	I,C	Uni-directional	100, 150, 200, 225
72T36135M	2.5	36	18432	BB240, BBG240	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	512K x 36	I,C	Uni-directional	166, 200
72T3645	2.5	36	36	BB208, BBG208	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	1K x 36	I,C	Uni-directional	150, 200, 225
72T3655	2.5	36	72	BB208, BBG208	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	2K x 36	I,C	Uni-directional	150, 200, 225
72T3665	2.5	36	144	BB208, BBG208	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	4K x 36	C	Uni-directional	150, 200, 225
72T3675	2.5	36	288	BB208, BBG208	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	8K x 36	C	Uni-directional	150, 200, 225
72T3685	2.5	36	512	BB208, BBG208	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	16K x 36	I,C	Uni-directional	150, 200, 225
72T3695	2.5	36	1024	BB208, BBG208	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	32K x 36	I,C	Uni-directional	150, 200, 225
72T72105	2.5	72	4096	BB324, BBG324	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	64K x 72	C	Uni-directional	100, 150, 200, 225
72T72115	2.5	72	9216	BB324, BBG324	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	128K x 72	I,C	Uni-directional	100, 150, 200, 225
72T7285	2.5	72	1024	BB324, BBG324	1.5 V HSTL, 1.8 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	16K x 72	C	Uni-directional	100, 150, 200, 225
72T7295	2.5	72	2048	BB324, BBG324	1.5 V HSTL, 2.5 V LVTTTL, 3.3 V LVTTTL	32K x 72	C	Uni-directional	100, 150, 200, 225
72V201	3.3	9	2	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	256 x 9	I,C	Uni-directional	50, 66, 100
72V205	3.3	18	4	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	256 x 18	I,C	Uni-directional	50, 66, 100

SYNCHRONOUS FIFOs

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72V2101	3.3	9	2048	PN64, PNG64	3.3 V LVTTTL	256K x 9	I,C	Uni-directional	50, 66, 100
72V2103	3.3	18	2048	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	128K x 18, 256K x 9	I,C	Uni-directional	66, 100, 133, 166
72V2105	3.3	18	4096	PN64, PNG64	3.3 V LVTTTL	256K x 18	I,C	Uni-directional	50, 66, 100
72V2111	3.3	9	4096	PN64, PNG64	3.3 V LVTTTL	512K x 9	I,C	Uni-directional	50, 66, 100
72V2113	3.3	18	4096	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	256K x 18, 512K x 9	I,C	Uni-directional	66, 100, 133, 166
72V211	3.3	9	4	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	512 x 9	I,C	Uni-directional	50, 66, 100
72V215	3.3	18	9	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	512 x 18	I,C	Uni-directional	50, 66, 100
72V221	3.3	9	9	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	1K x 9	I,C	Uni-directional	50, 66, 100
72V223	3.3	18	9	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	1K x 9, 512 x 18	I,C	Uni-directional	133, 166
72V225	3.3	18	18	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	1K x 18	I,C	Uni-directional	50, 66, 100
72V231	3.3	9	18	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	2K x 9	I,C	Uni-directional	50, 66, 100
72V233	3.3	18	18	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	1K x 18, 2K x 9	I,C	Uni-directional	133, 166
72V235	3.3	18	36	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	2K x 18	I,C	Uni-directional	50, 66, 100
72V241	3.3	9	36	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	4K x 9	I,C	Uni-directional	50, 66, 100
72V243	3.3	18	36	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	2K x 18, 4K x 9	I,C	Uni-directional	133, 166
72V245	3.3	18	72	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	4K x 18	I,C	Uni-directional	50, 66, 100
72V251	3.3	9	72	PL32, PLG32, PR32, PRG32	3.3 V LVTTTL	8K x 9	I,C	Uni-directional	50, 66, 100
72V253	3.3	18	72	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	4K x 18, 8K x 9	I,C	Uni-directional	133, 166
72V255	3.3	18	144	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	8K x 18	I,C	Uni-directional	50, 66, 100
72V261	3.3	9	144	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	16K x 9	C	Uni-directional	50, 66, 100
72V263	3.3	18	144	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	16K x 9, 8K x 18	I,C	Uni-directional	66, 100, 133, 166
72V265	3.3	18	288	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	16K x 18	I,C	Uni-directional	50, 66, 100
72V271	3.3	9	288	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	32K x 9	I,C	Uni-directional	50, 66, 100
72V273	3.3	18	288	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	16K x 18, 32K x 9	I,C	Uni-directional	66, 100, 133, 166
72V275	3.3	18	512	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	32K x 18	I,C	Uni-directional	50, 66, 100
72V281	3.3	9	512	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	64K x 9	I,C	Uni-directional	50, 66, 100
72V283	3.3	18	512	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	32K x 18, 64K x 9	I,C	Uni-directional	66, 100, 133, 166
72V285	3.3	18	1024	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	64K x 18	I,C	Uni-directional	50, 66, 100
72V291	3.3	9	1024	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	128K x 9	I,C	Uni-directional	50, 66, 100
72V293	3.3	18	1024	BC100, BCG100, PN80, PNG80	3.3 V LVTTTL	128K x 9, 64K x 18	I,C	Uni-directional	66, 100, 133, 166
72V295	3.3	18	2048	PN64, PNG64	3.3 V LVTTTL	128K x 18	I,C	Uni-directional	50, 66, 100
72V36100	3.3	36	2048	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	64K x 36	I,C	Uni-directional	66, 100, 133, 166
72V36110	3.3	36	4096	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	128K x 36	I,C	Uni-directional	66, 100, 133, 166

SYNCHRONOUS FIFOS

Part Number	Core Voltage (V)	Bus Width (bits)	Density (Kb)	Package Code (see page 8 for details)	I/O Type	Organization	Temp. Range	Architecture	I/O Frequency (MHz)
72V3612	3.3	36	4	PNG120	3.3 V LVTTTL	64 x 36 x 2	C	Bi-directional	50, 66, 83
72V3623	3.3	36	9	PK128, PKG128	3.3 V LVTTTL	256 x 36	C	Uni-directional	66, 100
72V3624	3.3	36	18	PK128, PKG128	3.3 V LVTTTL	256 x 36 x 2	C	Bi-directional	66, 100
72V3640	3.3	36	36	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	1K x 36	I,C	Uni-directional	66, 100, 133, 166
72V3641	3.3	36	36	PNG120	3.3 V LVTTTL	1K x 36	C	Uni-directional	50, 66
72V3643	3.3	36	36	PK128, PKG128	3.3 V LVTTTL	1K x 36	C	Uni-directional	66, 100
72V3644	3.3	36	72	PK128, PKG128	3.3 V LVTTTL	1K x 36 x 2	C	Bi-directional	66, 100
72V3650	3.3	36	72	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	2K x 36	I,C	Uni-directional	66, 100, 133, 166
72V3653	3.3	36	72	PK128, PKG128	3.3 V LVTTTL	2K x 36	C	Uni-directional	66, 100
72V3656	3.3	36	144	PK128, PKG128	3.3 V LVTTTL	2K x 36 x 2	I,C	Bi-directional	66, 100
72V3660	3.3	36	144	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	4K x 36	I,C	Uni-directional	66, 100, 133, 166
72V3663	3.3	36	144	PK128, PKG128	3.3 V LVTTTL	4K x 36	I,C	Uni-directional	66, 100
72V3664	3.3	36	288	PK128, PKG128	3.3 V LVTTTL	4K x 36 x 2	C	Bi-directional	66, 100
72V3670	3.3	36	288	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	8K x 36	I,C	Uni-directional	66, 100, 133, 166
72V3673	3.3	36	288	PK128, PKG128	3.3 V LVTTTL	8K x 36	C	Uni-directional	66, 100
72V3680	3.3	36	512	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	16K x 36	I,C	Uni-directional	66, 100, 133, 166
72V3690	3.3	36	1024	BB144, BBG144, PK128, PKG128	3.3 V LVTTTL	32K x 36	I,C	Uni-directional	66, 100, 133, 166
72V801	3.3	9	2	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	256 x 9	I,C	Dual FIFO	50, 66, 100
72V805	3.3	18	4	PK128, PKG128	3.3 V LVTTTL	256 x 18	C	Dual FIFO	50, 66, 100
72V811	3.3	9	4	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	512 x 9	I,C	Dual FIFO	66, 100
72V815	3.3	18	9	PK128, PKG128	3.3 V LVTTTL	512 x 18	C	Dual FIFO	50, 66, 100
72V821	3.3	9	9	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	1K x 9	I,C	Dual FIFO	50, 66, 100
72V825	3.3	18	18	PK128, PKG128	3.3 V LVTTTL	1K x 18	I,C	Dual FIFO	50, 66, 100
72V831	3.3	9	18	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	2K x 9	C	Dual FIFO	50, 66, 100
72V835	3.3	18	36	PK128, PKG128	3.3 V LVTTTL	2K x 18	I,C	Dual FIFO	50, 66, 100
72V841	3.3	9	36	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	4K x 9	I,C	Dual FIFO	50, 66, 100
72V845	3.3	18	72	PK128, PKG128	3.3 V LVTTTL	4K x 18	I,C	Dual FIFO	50, 66, 100
72V851	3.3	9	72	PN64, PNG64, PP64, PPG64	3.3 V LVTTTL	8K x 9	I,C	Dual FIFO	50, 66, 100

PACKAGE KEY

Package Code (Use for Package Search)	Package Description	Pin Count	Description	Pb / Green	Top Mark	Dimensions				Devices Per Reel	Devices Per Tray/ Tube	Class
						Pitch (mm)	Length (mm)	Width (mm)	Thickness (mm)			
CD16	CDIP	16	CERDIP 300 MIL	Pb	D	2.54	20.00	7.62	3.43	—	25	Hermetic
SD28	CDIP	28	CERDIP 300 MIL	Pb	TD	2.54	37.72	7.62	3.56	—	13	Hermetic
CD28	CDIP	28	CERDIP 600 MIL	Pb	D	2.54	37.20	15.24	1.65	—	13	Hermetic
BC100, BCG100	CABGA	100	Chip Array BGA 11.0 x 11.0 x 1.0 mm Pitch	Pb, Green	BC, BCG	1.00	11.00	11.00	1.40	1500	168	Plastic
LC32	LCC	32	Leadless CC Std. Outline	Pb	L32	1.27	11.40	13.97	1.78	750	35	Hermetic
BB144, BBG144	PBGA	144	PBGA 13.0 x 13.0 mm x 1.0 mm Pitch	Pb, Green	BB, BBG	1.00	13.00	13.00	1.76	1000	160	Plastic
BG121, BGG121	PBGA	121	PBGA 15.0 x 15.0 x 1.27 mm Pitch	Pb, Green	BG, BGG	1.27	15.00	15.00	2.15	1000	126	Plastic
BB208, BBG208	PBGA	208	PBGA 17.0 x 17.0 mm x 1.0 mm Pitch	Pb, Green	BB, BBG	1.00	17.00	17.00	1.76	1000	90	Plastic
BB256, BBG256	PBGA	256	PBGA 17.0 x 17.0 mm x 1.0 mm Pitch	Pb, Green	BB, BBG	1.00	17.00	17.00	1.76	1000	90	Plastic
BB240, BBG240	PBGA	240	PBGA 19.0 x 19.0 mm x 1.0 mm Pitch	Pb, Green	BB, BBG	1.00	19.00	19.00	1.76	750	84	Plastic
BB324, BBG324	PBGA	324	PBGA 19.0 x 19.0 mm x 1.0 mm Pitch	Pb, Green	BB, BBG	1.00	19.00	19.00	1.76	750	84	Plastic
PD16, PDG16	PDIP	16	Plastic DIP 300 MIL	Pb, Green	P, PDG	2.54	19.00	7.62	3.30	—	25	Plastic
PT28, PTG28	PDIP	28	Plastic DIP 300 MIL	Pb, Green	TP, TPG	2.54	34.30	7.62	3.30	—	14	Plastic
PD28, PDG28	PDIP	28	Plastic DIP 600 MIL	Pb, Green	P, PDG	2.54	36.60	15.24	3.80	—	13	Plastic
PL32, PLG32	PLCC	32	PLCC Rectangular	Pb, Green	J, JG	1.27	13.97	11.43	2.79	750	32	Plastic
PL68, PLG68	PLCC	68	PLCC	Pb, Green	J, JG	1.27	24.00	24.00	3.63	250	18	Plastic
PS16, PSG16	SOIC	16	SOIC 300 MIL	Pb, Green	SO, SOG	1.27	10.40	7.60	2.34	1000	46	Plastic
PE28, PEG28	SOIC	28	SOIC 330 MIL	Pb, Green	SO, SOG	1.27	17.90	8.40	2.62	1000	26	Plastic
PP64, PPG64	TQFP	64	TQFP 10.0 x 10.0 x 1.4 mm	Pb, Green	TF, TFG	0.50	10.00	10.00	1.40	1250	160	Plastic
PNG120	TQFP	120	TQFP 14.0 x 14.0 x 1.4 mm	Green	PFG	0.40	14.00	14.00	1.40	750	90	Plastic
PN64, PNG64	TQFP	64	TQFP 14.0 x 14.0 x 1.4 mm	Pb, Green	PF, PFG	0.80	14.00	14.00	1.40	750	90	Plastic
PK128, PKG128	TQFP	128	TQFP 14.0 x 20.0 x 1.4 mm	Pb, Green	PF, PFG	0.50	20.00	14.00	1.40	1000	72	Plastic
PR32, PRG32	TQFP	32	TQFP 7 x 7 x 1.4 mm	Pb, Green	PF, PFG	0.80	7.00	7.00	1.40	2000	250	Plastic
PA56, PAG56	TSSOP	56	TSSOP 6.1 mm, 0.5mm Pitch	Pb, Green	PA, PAG	0.50	14.00	6.10	1.00	2000	34	Plastic
PN80, PNG80	TQFP	80	TQFP 14 x 14 x 1.4 mm	Pb, Green	PF, PFG	0.65	14.00	14.00	1.40	750	90	Plastic
PS20, PSG20	SOIC	20	SOIC 300 MIL	Pb, Green	SO, SOG	1.27	12.80	7.60	2.34	1000	37	Plastic

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