

Motorola Networking Memory Operation (NMO)

Ultra Fast

Category	Organizations	V _{DD}	Device No.	Pin count	Packages	Speed	Prod. Status	Description
8M	512K x 18	3.3 V	MCM63R918	119	(FC) PBGA	3.0/3.3/3.7/4.0	Now	Not recommended for new design. Use MCM63R918A.
			MCM63R918A	119	(FC) PBGA	3.0/3.3/3.7/4.0	1Q01	For secondary cache & ATM switch, telecom & other high speed memory applications. Synchronous.
	256K x 36	3.3 V	MCM63R836	119	(FC) PBGA	3.0/3.3/3.7/4.0	Now	Not recommended for new design. Use MCM63R836A.
			MCM63R836A	119	(FC) PBGA	3.0/3.3/3.7/4.0	1Q01	For secondary cache & ATM switch, telecom & other high speed memory applications. Synchronous.
4M	256K x 18	3.3 V	MCM63R818	119	(FC) PBGA	3.0/3.3/3.7/4.0	Now	For secondary cache & ATM switch, telecom & other high speed memory applications. Synchronous.
	128K x 36		MCM63R736	119	(FC) PBGA	3.0/3.3/3.7/4.0	Now	For secondary cache & ATM switch, telecom & other high speed memory applications. Synchronous.

DDR (Double Data Rate)

Category	Organizations	V _{DD}	Device No.	Pin Count	Packages	Speed	Prod. Status	Description
8M	512K x 18	2.5 V	MCM64E918	153	(FC) PBGA	3.0/3.3/4.0	Now	Pipelined burst synchronous. Provide high data bandwidth in secondary cache environments.
	256K x 36		MCM64E836	153	(FC) PBGA	3.0/3.3/4.0	Now	Pipelined burst synchronous. Provide high data bandwidth in secondary cache environments.

CAMs (Content Addressable Memory)

Category	Organization	V _{DD}	Device Number	Pin Count	Package	Speeds	Prod. Status	Description
CAMs	16K x 64	3.3 V	MCM69C432	100	(TQ) TQFP	20 ns	Now	Content addressable memory for communication applications. 16K connections. 180 ns match time.
			SCM69C432	100	(TQ) TQFP	20 ns	Now	Industrial version of MCM69C432.
			MCM69C433	100	(TQ) TQFP	15 ns	Now	66 MHz for PowerQUICC II applications. 240 ns match time.
			SCM69C433	100	(TQ) TQFP	15 ns	Now	Industrial version of MCM69C433.
	4K x 64	3.3 V	MCM69C232	100	(TQ) TQFP	20 ns	Now	Content addressable memory for communication applications. 4K connections. 160 ns match time.
			SCM69C232	100	(TQ) TQFP	20 ns	Now	Industrial version of MCM69C232.
			MCM69C233	100	(TQ) TQFP	15 ns	Now	66 MHz for PowerQUICC II applications. 210 ns match time.
			SCM69C233	100	(TQ) TQFP	15 ns	Now	Industrial version of MCM69C233.

Integrated Cache Solutions

Category	Organization	V _{DD}	Device Number	Pin Count	Package	Speeds	Prod. Status	Description
Integrated Cache Solutions	32K x 72	3.3 V	MPC2605	241	(ZP) PBGA	83/66 MHz	Now	Integrated L2 cache for PowerPC processors. One component for 256KB, two for 512KB, and four for 1MB L2 cache solution.

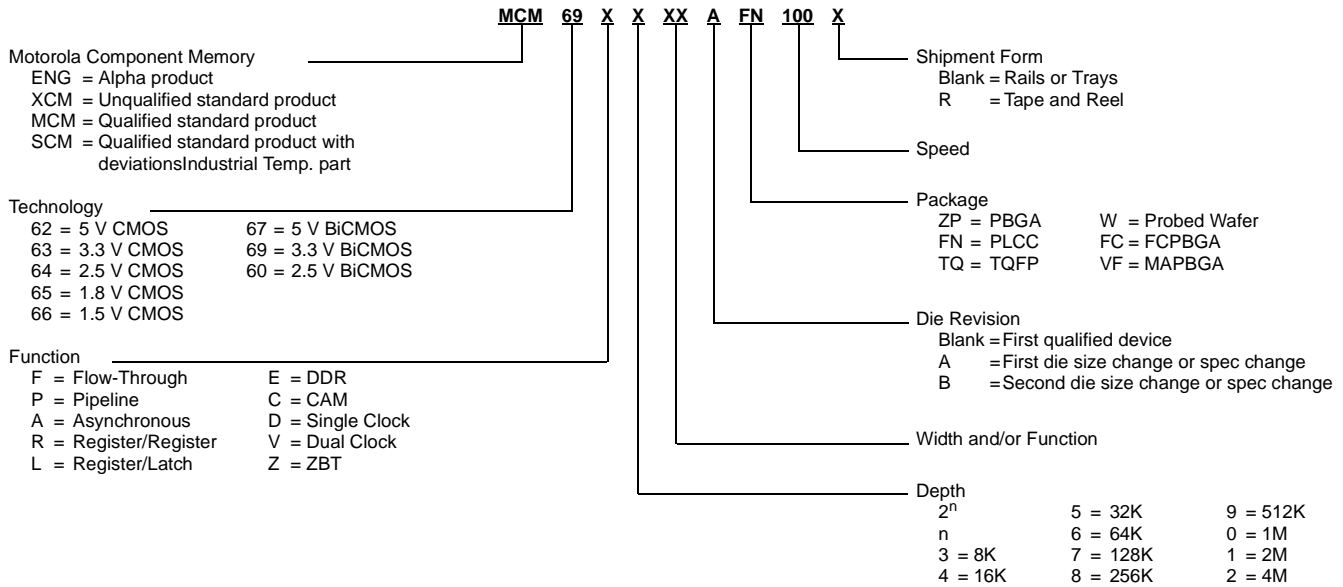
Dual Port Devices

Category	Organization	V _{DD}	Device Number	Pin Count	Package	Speeds	Prod. Status	Description
8M	256K x 36	3.3 V	MCM63D836	209	MAPBGA	83/100 MHz	1Q01	Dual address, dual I/O NetRAM pipelined port chip enable. Single clock.
			MCM63V836	209	MAPBGA	83/100 MHz	1Q01	Dual address, dual I/O NetRAM pipelined port chip enable. Dual clock.
		2.5 V	MCM64D836	209	MAPBGA	83/100 MHz	1Q01	Dual address, dual I/O NetRAM pipelined port chip enable. Single clock.
			MCM64V836	209	MAPBGA	83/100 MHz	1Q01	Dual address, dual I/O NetRAM pipelined port chip enable. Dual clock.
4M	128K x 36	3.3 V	MCM63D736A	176	(TQ) TQFP	83/100/133 MHz	4Q00	Dual address, dual I/O NetRAM pipelined per port chip enable.
1M	32K x 36	3.3 V	MCM69D536	176	(TQ) TQFP	5.0/6.0/8.0 ns	Now	Dual address, dual I/O. NetRAM.
	64K x 18	3.3 V	MCM69D618	100	(TQ) TQFP	5.0/6.0/8.0 ns	Now	Dual address, dual I/O. NetRAM.

Asynchronous

Category	Organization	V _{DD}	Device Numbers	Pin Count	Package	Speeds	Prod. Status	Description
3M	128K x 24	3.3 V	MCM6341	119	(ZP) PBGA	10.0/11.0/12.0/15.0 ns	Now	DSP applications for base stations and other communication applications. Industrial temperature available.

FSRAM Standard Synchronous Part Numbering



End-of-Life Devices

Device Number	Last Buy	Last Ship	Device Number	Last Buy	Last Ship
MCM63P733A	3/24/01	9/24/01	MCM6946	9/14/00	3/14/01
MCM63F733A	3/24/01	9/24/01	MCM6343	12/7/00	6/7/01
MCM69F618C	3/11/01	9/11/01	MCM69R618	9/28/00	3/28/01
MCM69P618C	3/11/01	9/11/01	MCM69R536	9/28/00	3/28/01
MCM69F536C	3/11/01	9/11/01	MCM69R818C	3/1/01	9/1/01
MCM69P536C	3/11/01	9/11/01	MCM69R820C	3/1/01	9/1/01
MCM63Z818	3/24/01	9/24/01	MCM69R736C	3/1/01	9/1/01
MCM63Z819	3/24/01	9/24/01	MCM69R738C	3/1/01	9/1/01
MCM63Z736	3/24/01	9/24/01	MCM69L819A	9/28/00	3/28/01
MCM63Z737	3/24/01	9/24/01	MCM69R819A	9/28/00	3/28/01
MCM6323A	4/20/00	10/20/00	MCM69L737A	9/28/00	3/28/01
MCM6949	9/14/00	3/14/01	MCM69R737A	9/28/00	3/28/01

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