



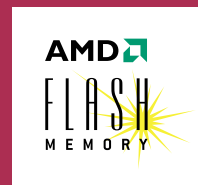
Small **footprint**

Consistent **packaging**

Succeed with Flash technology leadership from AMD

Succeed with AMD's industry-leading family of multi-chip package (MCP) Flash and SRAM memory solutions.

AMD's MCP solutions feature high-performance AMD Flash and the highest quality SRAM, in a single convenient package. AMD's MCP solutions offer customers the ability to design feature-rich applications while optimizing board space in today's cutting-edge systems. The high-performance, ultra-low power consumption, and unmatched reliability of AMD's proven MCP devices provide a perfect solution to designers and manufacturers everywhere.



Small Footprint, Consistent Packaging

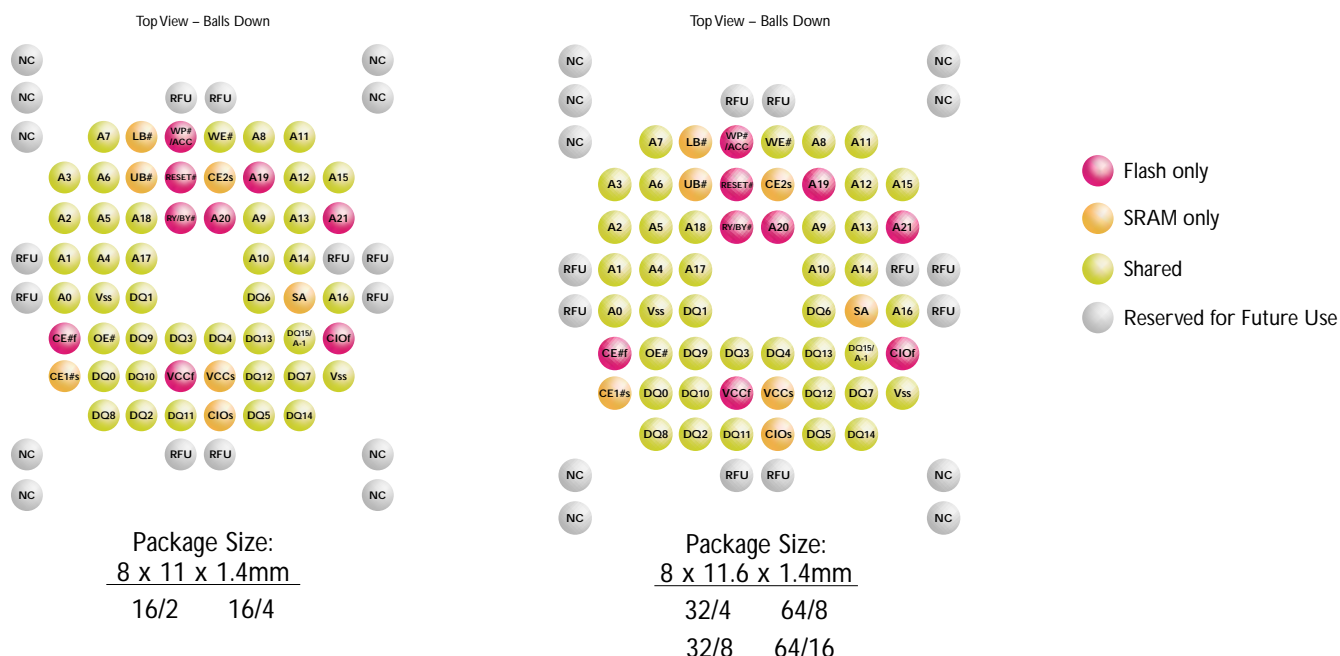
Cellular handset designers and other leading manufacturers face many challenges incorporating as many of the latest features as possible into smaller footprints. MCP devices meet these challenges by offering a single, space-saving package with the industry-leading performance and quality that customers have come to expect from AMD.

AMD's various MCP solutions are stacked in a consistent footprint and pinout, thereby enabling customers to easily design a single board while differentiating their products. In addition, AMD's advanced stacking technology can readily be applied to new Flash, SRAM, or other devices as they are introduced. Consequently, AMD will continue to offer customers the most value-added and cost-effective MCP solutions as innovations enter the marketplace.

Streamline Your Supply-Chain, Focus On Your Designs

AMD's strong partnerships with leading manufacturers not only result in a reliable supply of SRAM for MCP devices, they also ensure customers can benefit from any cost-reductions or advances in SRAM technology. Additionally, AMD manages the complex logistics, quality, and inventory management issues in procuring the best SRAM available, thereby enabling customers to streamline their supply-chain and focus on creating great products. Finally, AMD's award-winning customer service and demonstrated commitment to customer success make AMD MCP solutions an ideal choice for most portable applications.

AMD Flash+SRAM MCP Footprint and Pinout: Easy Migration



AMD's Portfolio of 3.0V Flash+SRAM MCP Products

	2Mb SRAM	4Mb SRAM	8Mb SRAM	16Mb SRAM
64Mb Flash			Am41DL6408	Am41DL640A
32Mb Flash		Am41DL3234 Am41DL3244	Am41DL3248 Am41DL3238 Am41DL3208	
16Mb Flash	Am42DL1632 Am42DL1622 Am42DL1612	Am41DL1644 Am41DL1634		

Bank Split
 Flexible Bank



Key Features

Key features of currently available MCP solutions include the following:

- 16, 32, or 64 Mb 3.0 V Flash memory packaged with a 2, 4, 8, or 16 Mb SRAM in a single, Fine-pitch Ball Grid Array (FBGA) package
- Award-winning Simultaneous Read/Write (SRW) Flash capability between any two banks
- ZeroPower™ Flash when inactive; ultra-low power consumption during standby mode (0.2 uA)
- SecSI™ (Secured Silicon) Sector security

Applications

AMD's MCP solutions are ideal for a variety of applications requiring high-performance, low power consumption, and a small footprint:

- Cellular Handsets
- Two-way Pagers
- Personal Information Devices
- Handheld PCs
- GPS Receivers



Features	Benefits	Features	Benefits
<ul style="list-style-type: none"> Industry-leading, high-performance Flash memory 	<ul style="list-style-type: none"> Empowers designers to create feature-rich systems and applications 	<ul style="list-style-type: none"> Advanced stacking technology 	<ul style="list-style-type: none"> New MCP devices incorporate technology advances and new device combinations
<ul style="list-style-type: none"> Ultra-low power consumption 	<ul style="list-style-type: none"> Extends system usage time for battery-operated applications 	<ul style="list-style-type: none"> Meets AMD's uncompromising standards for reliability 	<ul style="list-style-type: none"> Industry-leading quality standards offer peace-of-mind for all applications
<ul style="list-style-type: none"> AMD Flash and high-quality SRAM in a single package 	<ul style="list-style-type: none"> Reduces design footprints and product form-factors; simplifies manufacturing and cuts costs by reducing PCB requirements; streamlines supply-chains and simplifies inventory-management 	<ul style="list-style-type: none"> Simultaneous Read/Write Operation 	<ul style="list-style-type: none"> Read while programming with no latency; AMD's Data Management Software (DMS) facilitates easy storage of code and data in the same device
<ul style="list-style-type: none"> Consistent footprint and pinouts 	<ul style="list-style-type: none"> Simplifies design by allowing for product specialization from a single board design; easy migration to new and future cost-reduced MCP solutions 	<ul style="list-style-type: none"> SecSi™ (Secured Silicon) Sector 	<ul style="list-style-type: none"> Prevents cloning and signal theft
<ul style="list-style-type: none"> Strong alliances with leading SRAM manufacturers 	<ul style="list-style-type: none"> Reliable supply of MCP solutions; the highest-quality SRAM to satisfy any design 	<ul style="list-style-type: none"> Flexible sector architecture 	<ul style="list-style-type: none"> Multiple bootblock options for a variety of applications

ORDERING INFORMATION

PRODUCT	FLASH DENSITY (DATA WIDTH)	SRAM DENSITY (DATA WIDTH)	SPEED RATINGS (ns)	PACKAGE OPTIONS
Am42DL16x2T/B*	16 Mb (x8/x16)	2 Mb (x16)	70, 85	69-ball FBGA
Am41DL16x4T/B*	16 Mb (x8/x16)	4 Mb (x8/x16)	70, 85	69-ball FBGA
Am41DL32x4T/B*	32 Mb (x8/x16)	4 Mb (x8/x16)	70, 85	73-ball FBGA
Am41DL32x8T/B*	32 Mb (x8/x16)	8 Mb (x8/x16)	70, 85	73-ball FBGA
Am41DL6408	64 Mb (x8/x16)	8 Mb (x8/x16)	70, 85	73-ball FBGA
Am42DL640A	64 Mb (x8/x16)	16 Mb (x16)	70, 85	73-ball FBGA

* Available in Top (T) or Bottom (B) Boot sector Configurations.

About AMD

AMD is a global supplier of integrated circuits for the personal and networked computer and communications markets with manufacturing facilities in the United States, Europe, Japan, and Asia.

AMD, a Fortune 500 and Standard & Poor's 500 company, produces microprocessors, Flash memory devices, and support circuitry for communications and networking applications.

Founded in 1969 and based in Sunnyvale, California, AMD had revenues of \$4.6 billion in 2000. (NYSE:AMD)

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