



DuraMemory[™]

Module-In-A-Package[™] (MIP[™])

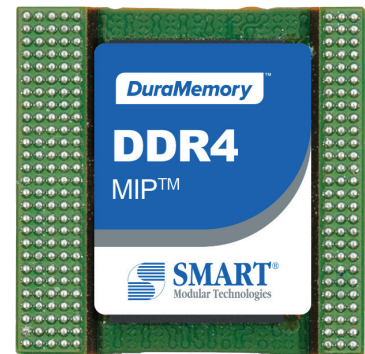
SMART Modular's MIP (Module In a Package) is a Tiny Form Factor (TFF) memory module that combines the benefits of industry standard SODIMMs with SMART's proprietary stacking technology. About the size of a nickel, SMART's MIP occupies 1/5th the area of a SODIMM while offering higher performance and lower power.

Key advantages of the MIP over SODIMMs include 42% power savings, 42% jitter reduction, and 39% PK/PK savings. These benefits are critical for applications such as broadcast video, mobile routing, high-end video/graphics cards and embedded computing applications where memory density in a small space is essential.

MIPs contain on-package address and control signal termination, eliminating the need in DRAM-down board usage scenarios. The MIP leverages SMART's extensive stacking technology into new markets and new applications. It addresses OEMs' need for faster memory in space-saving cube computing applications for networking, telecom and embedded markets.

Features & Benefits

- Occupies only 1/5th the space of an SODIMM
- Up to 42% power savings vs SODIMMs
- Superior ruggedness – soldered down; no sockets or clips
- Leverages SMART Modular's proven stacking technology



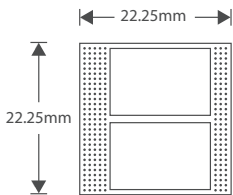
Applications

- Video Broadcast
- Video/Graphics Cards
- Embedded Computing
- Telecom
- Defense/Aerospace
- Automotive

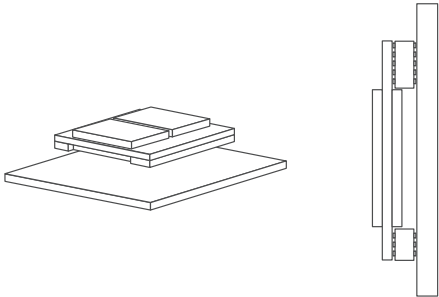
Ordering Information

216 PIN - DDR4 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
ST2046MP42W625MF	16GB	22.25	2Gb x64	2Gx16	3200MT/s	1.2V	0°C to +70°C
ST2046MP42W614MB	16GB	22.25	2Gb x64	1Gx16	2933MT/s	1.2V	0°C to +70°C
STT1026MP411625MF	8GB	22.25	1Gb x64	1Gx16	3200MT/s	1.2V	-40°C to +85°C
ST1026MP41W693HC	8GB	22.25	1Gb x64	1Gx8	2666MT/s	1.2V	0°C to +70°C
STT5126MP451625MR	4GB	22.25	512Mb x64	512Mx16	3200MT/s	1.2V	-40°C to +85°C
STT2566MP421625MG	2GB	22.25	256Mb x64	256Mx16	3200MT/s	1.2V	-40°C to +85°C
STT2566MP421625NE	2GB	22.25	256Mb x64	256Mx16	3200MT/s	1.2V	-40°C to +85°C
216 PIN - DDR3 MIP							
SMART Part Number	Density	Height (mm)	Module Config	Device Config	Speed	Voltage	Temp
SP2566MP321638NE	2GB	22.25	256Mb x64	256Mx16	1866MT/s	1.35V	0°C to +70°C

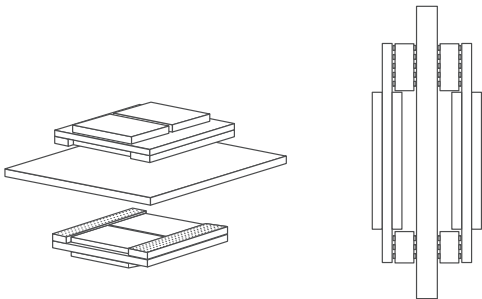
MIP Layout



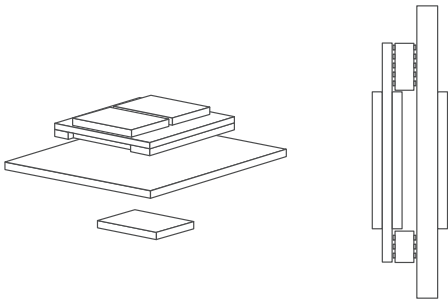
Layout 1



Layout 2



Layout 3
with ECC on
opposite side of the MIP



For more information, please visit: www.smartm.com

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