

Differences between the ZSPM1005 and ZSPM1000 PWM controllers



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Feature Comparison ZSPM1000 versus ZSPM1005

	ZSPM1000	Analog 8 of		
Product	ZSPM1000	ZSPM1005 World		
Description	True-digital PWM Controller	"Hybrid" PWM Controller		
Control Loop	Fully digital	Fully digital		
Step-Response Performance	Best-in-Class	Best-in-Class		
Pink Power Designer ™ Programmability	Yes, full flexibility during design	Yes, full flexibility during design		
Monitoring	Yes, via PMBus™	During development only		
Configurability in Application	Yes, on-the-fly via PMBus ™ Commands	2-pin configuration using resistors (VOUT, Compensation)		
Package	24-pin, QFN 4x4 mm	24-pin, QFN 4x4 mm		
When to use which controller product?	When you look for best step- performance, improved density and system cost, while requiring monitoring	When you look for best step- performance, improved density and system cost, while not requiring monitoring		

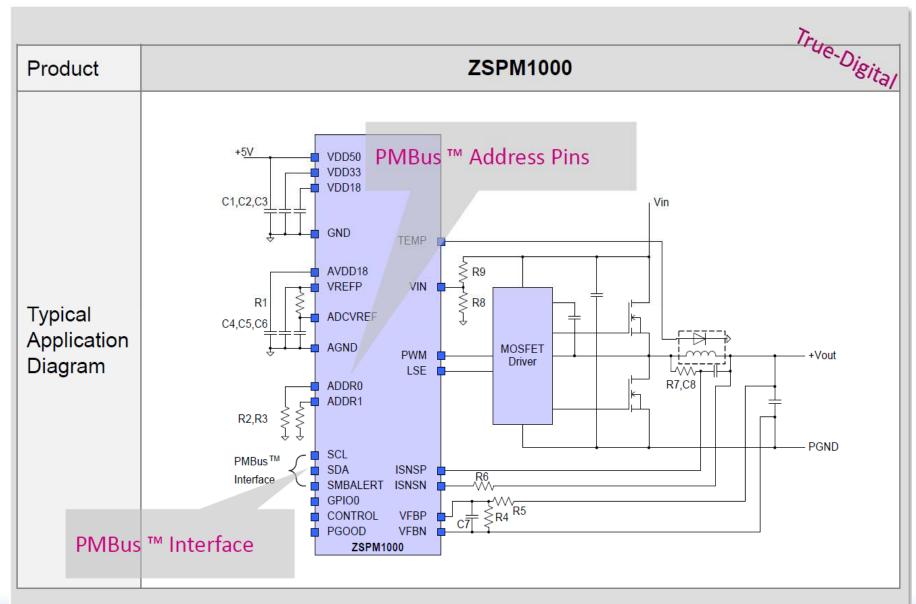








Application Diagram Comparison





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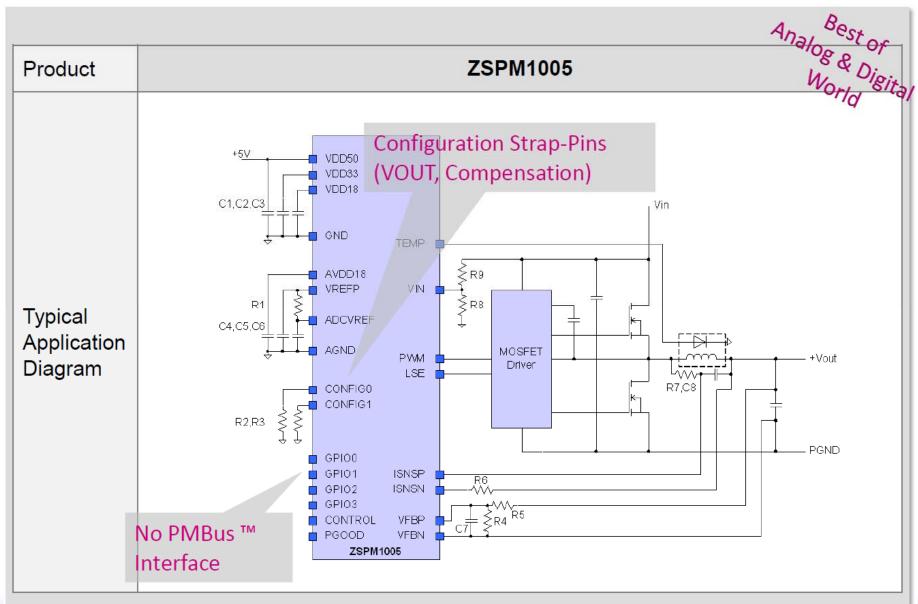








Application Diagram Comparison









Feature-Benefit-List (ZSPM100x)

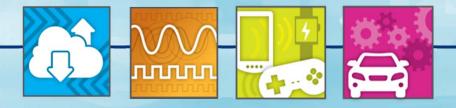
Feature	System Implication	Benefit	ZSPM1000	ZSPM1005
 True-Sample ™ Technology State-Law ™ Control Sub-Cycle Response ™ 	Best-in-class step-response, reduced output caps, improved robustness	40%-50% cost and size reduction in end user product	Х	Х
True-Digital Control Loop	High flexibility due to programmability	Improved Time-to-Market	Х	Х
Hardware /Firmware Implementation	Increased density	Most compact single-phase controller solution available	Х	Х
Pink-Power Designer ™	Programming, Status Monitoring, Debugging	Ease of use and Time-to- Market	Х	Х
Digital Communication	System Level Integration, on- the-fly changes via PMBus ™ commands	30%-50% energy efficiency improvement on system level, thermal management benefits	Х	-
2-Pin Strap-Option	Configurability of VOUT and Compensation	Flexibility and performance from digital world, usage in application from analog world	-	Х
Family Concept	ZSPM1000 and ZSPM1005 are pin-to-pin compatible	Enable platform designs	Х	Х







Thank You



Analog Mixed Signal Product Leadership in Growth Markets



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