



Serial I2C EEPROM in DFN5 package

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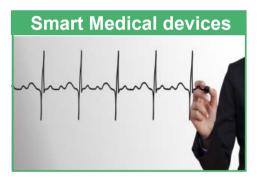
Target applications DFN5 package

Designed for applications where **space and weight constraints** and **manufacturing robustness** are key factors















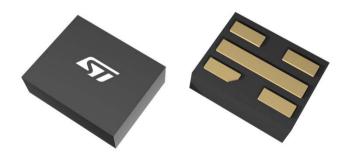


DFN5 package features

DFN5 package features provide significant improvement VS DFN8

DFN₅

Other market package names UFDFPN5* or MLP5



* UFDFPN: Ultra-thin Fine-pitch Dual Flat Package No lead

DFN5	Features			
Package size	1.4 x 1.7 mm			
Thickness	0.55 mm			
Weight	7 mg			
Pin count	5 pin			
Pin type	Leadless package			
Solder Pitch	0.4 mm			

	DFN8	
	2 x 3 mm	
	0.55 mm	
	16 mg	
	8 pin	
	Leadless	
	0.5 mm	
_		

Package information and soldering guidelines available in TN1171





DFN5 package benefits

Features	Benefits		
Wide I ² C portfolio Available in 2, 4, 8, 16, 32, 64 and 128 Kbits	Easy upgrade thanks to same footprint for all densities		
Package size: 1.4 x 1.7 mm	Minimize PCB footprint and gain at least 60% space versus DFN8		
5 pin count and no leads	Reduce soldering budget and wire routing on PCB		
Weight: 7mg	Gain on application weight		
Robust molded package & 0.4mm pitch	Small package with easy handling and mounting		
ECOPACK2®	RoHS-compliant and Halogen-free		





12C EEPROM DFN5 Portfolio

Select an I2C EEPROM in DFN5 package when

- PCB footprint must be reduced
- · Application weight must be reduced
- Easy handling and manufacturing robustness are important
- Thickness is not a key factor

Profile description	Part number	Memory density (Kbits)	Dimensio (mn		Profile (typ.) (mm)	Nb of pins	Weight (mg)
DFN5 (UFDFPN5 – MLP5)	M24C02-F MH 6TG	2	1.7	1.4	0.55	5	7
	M24C04-F MH 6TG	4	1.7	1.4	0.55	5	7
	M24C08-F MH 6TG	8	1.7	1.4	0.55	5	7
	M24C16-F MH 6TG	16	1.7	1.4	0.55	5	7
	M24C32-F MH 6TG	32	1.7	1.4	0.55	5	7
	M24C64-F MH 6TG	64	1.7	1.4	0.55	5	7
	M24128-BF MH 6TG	128	1.7	1.4	0.55	5	7





Serial EEPROM - make it easy









I2C EEPROM in DFN5 package summary

Suited for small & light modules where robustness is a key factor



- Wide I2C portfolio up to 128Kbits
- Robust ROHS and lead-free package
- Samples available now
- Download EEPROM finder mobile APP
- Apply for free ST samples or buy from e-store
- Prototype with X-Nucleo-EEPRMA2 shield
- IBIS & soldering guidelines available on st.com

Thank you

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