Serial I2C EEPROM in DFN5 package

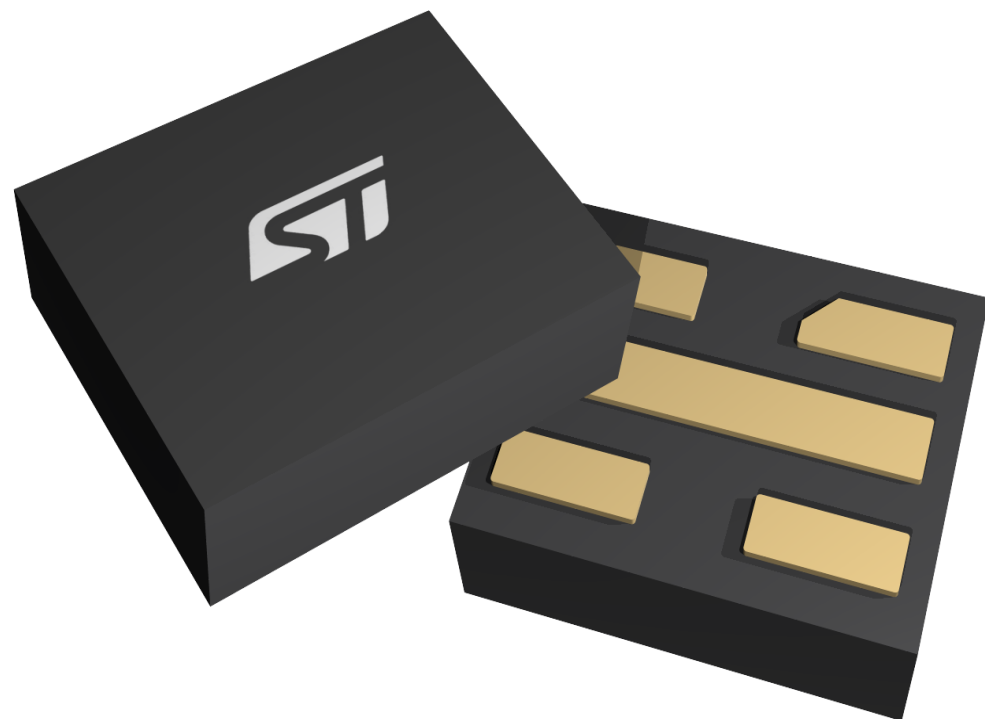*life.augmented*
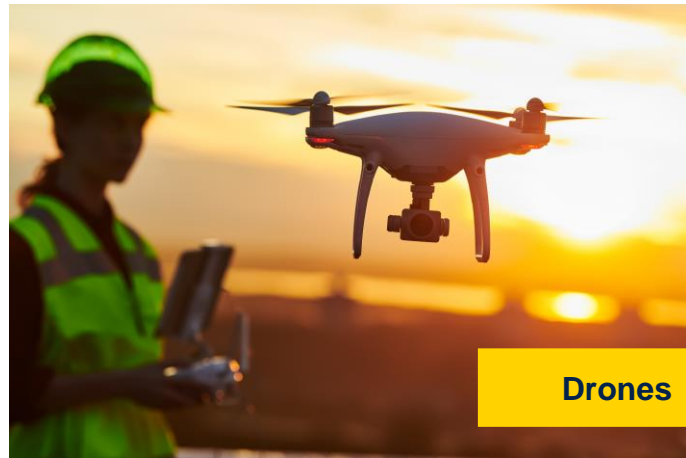
EEPROM

EEPROM

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

Drones

Industrial IoT

Headsets

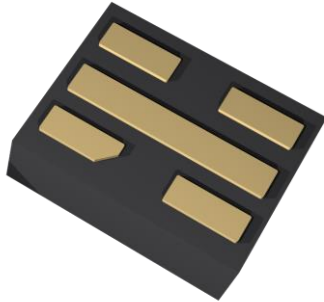**Smart medical devices**

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DFN5 package features

DFN5 package offers significant improvement vs. DFN8

DFN5

**Other market package names
UFDFPN5* or MLP5**

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

Features	DFN5	DFN8
Package size	**1.4 x 1.7 mm**	2 x 3 mm
Thickness	**0.55 mm**	0.55 mm
Weight	**7 mg**	16 mg
Pin count	**5 pin**	8 pin
Pin type	**Leadless package**	Leadless
Solder pitch	**0.4 mm**	0.5 mm

Package information and soldering guidelines available in TN1171

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DFN5 package benefits

Features	Benefits
Wide I²C portfolio Available in 2, 4, 8, 16, 32, 64, 128 and 256 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

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I2C EEPROM DFN5 Portfolio

I2C EEPROM in DFN5 package offers:

- reduced PCB footprint
- reduced application weight
- easy handling and manufacturing robustness

| Profile description	Part number	Memory density (Kbits)	Dimension (X/Y) (mm)		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
	M24256E-F**MH**6TG	256	1.7	1.4	0.55	5	7

Serial EEPROM - make it easy

ST EEPROM Finder app

Select & order the right EEPROM for your design

X-Nucleo-EEPRMA2
Plug-in shield

Prototype and validate

STM32 Cube
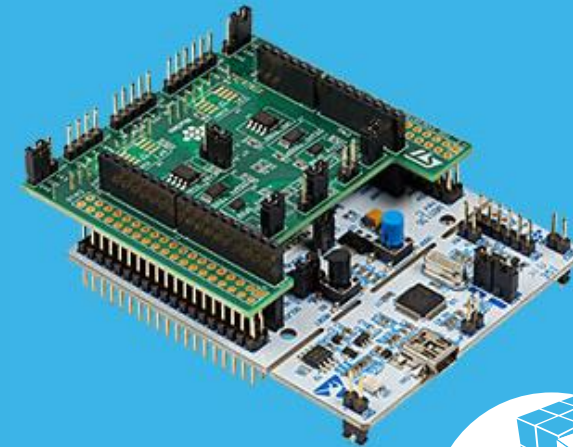
EEPROM

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

- Wide I2C portfolio up to 256 Kbits

- 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

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Thank you

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