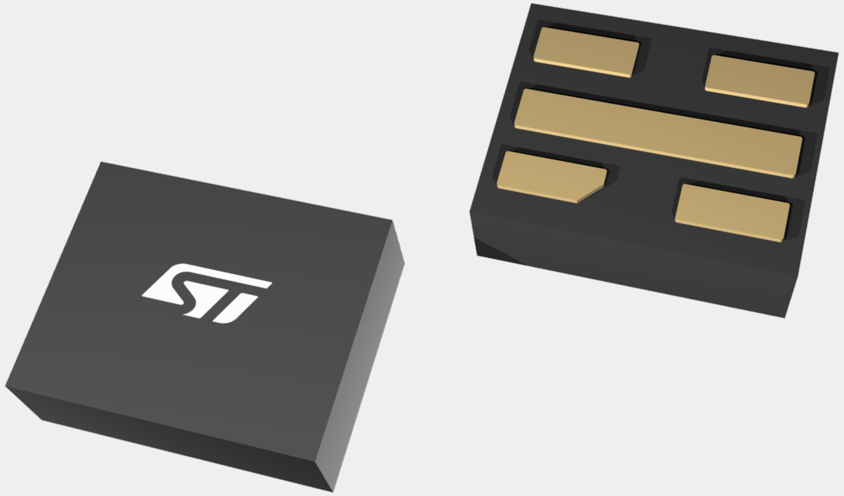


Serial I²C EEPROM in DFN5 package

ST EEPROM

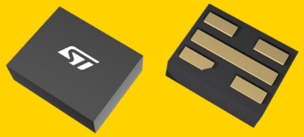
Target applications DFN5 package

Drones

Headsets

Industrial IoT

Smart medical devices



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

DFN5 package features

The DFN5 package offers significant improvements vs. DFN8

Other 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	Leadless
Solder pitch	0.4 mm	0.5 mm

Package information and soldering guidelines available in **TN1171**

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: 7 mg	Gain on application weight
Robust molded package & 0.4 mm pitch	Small package with easy handling and mounting
ECOPACK2®	RoHS-compliant and halogen-free

I²C EEPROM DFN5 Portfolio

UFDFPN5 – MLP5

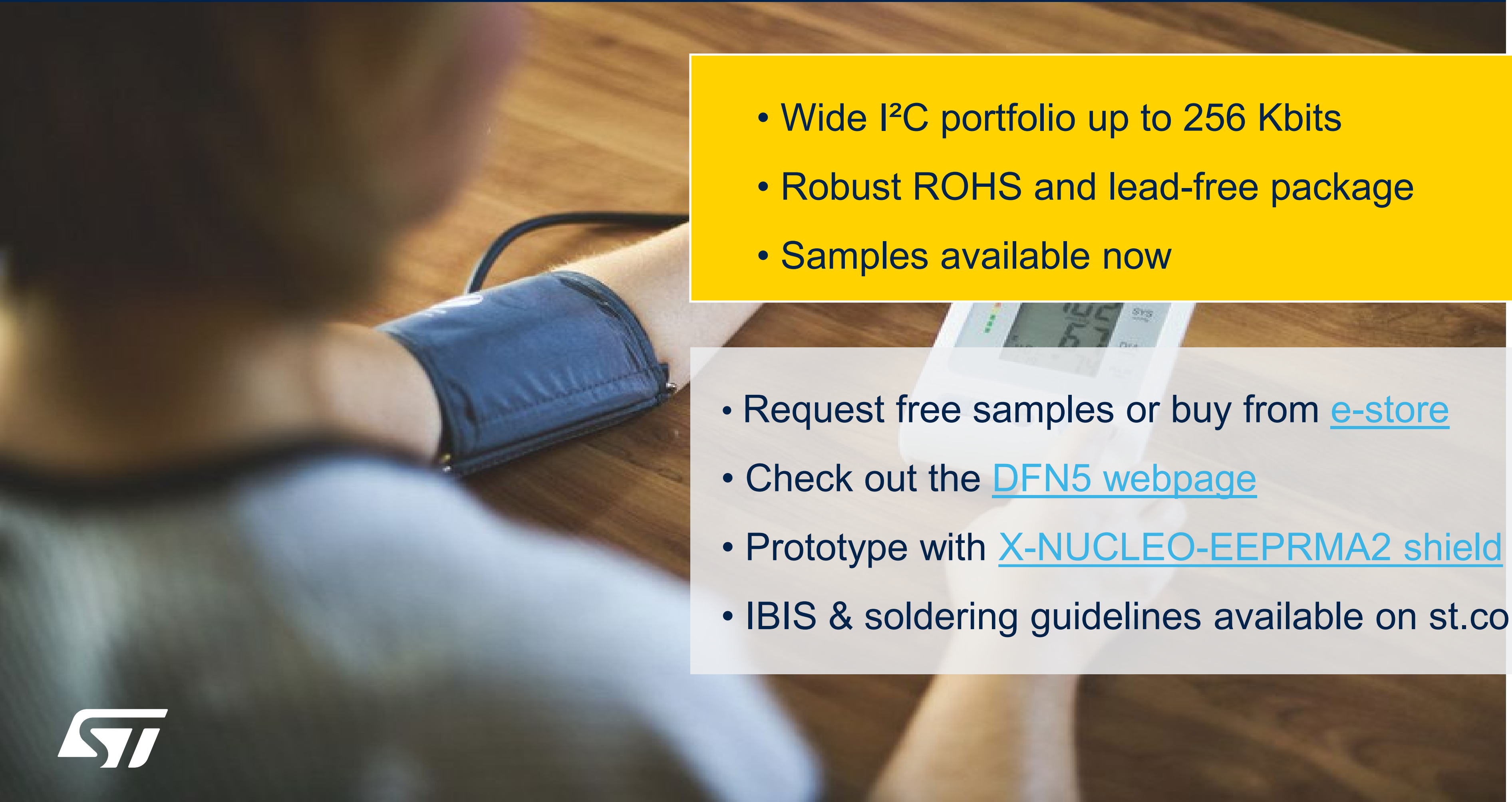
I²C EEPROM in DFN5 package offers

- Reduced PCB footprint
- Reduced application weight
- Easy handling and manufacturing robustness

Click on **product name** to download the Datasheet	Memory density (Kbits)	Dimension (X/Y) (mm)		Profile (typ.) (mm)	Number of pins	Weight (mg)
M24C02-F**MH**6TG	2	1.7	1.4	0.55	5	7
M24C04-F**MH**6TG	4					
M24C08-F**MH**6TG	8					
M24C16-F**MH**6TG	16					
M24C32-F**MH**6TG	32					
M24C64-F**MH**6TG	64					
M24128-BF**MH**6TG	128					
M24256E-F**MH**6TG	256					

I²C EEPROM in DFN5 package summary

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

- Request free samples or buy from e-store
- Check out the DFN5 webpage
- Prototype with X-NUCLEO-EEPRMA2 shield
- IBIS & soldering guidelines available on st.com

Our technology starts with You

Find out more at st.com