



# Serial EEPROM in the smallest standard package of the market : UFDFPN5\*

Boost your flexibility with  
the world's #1 EEPROM supplier



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

UFDFPN =DFN = MLP

# New UFDFPN5 package highlights

ST pioneered EEPROMs in DFN for more than 10 years (first shipment in 2004)

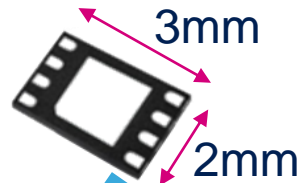
ST's DFN is qualified and delivered to major OEMs, mainly DRAM & Panel makers

DFN is a Standard package: Billion units shipped

ST's advanced process allows die to fit into smallest package

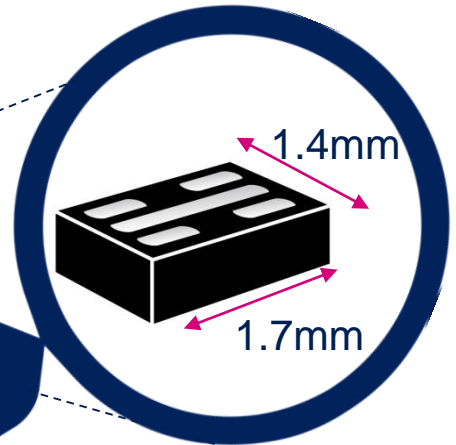
Compared to UFDFPN8, UFDFPN5 is **60% smaller and 55% lighter**

UFDFPN8



Package shrunk by **60% in size**  
**55% in weight**

UFDFPN5



# UFDFPN5 EEPROM applications

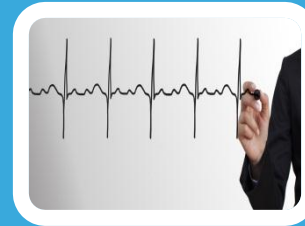
UFDFPN5 specially tailored for innovative designs



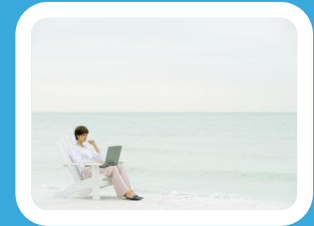
LCD panel



Headsets



Medical



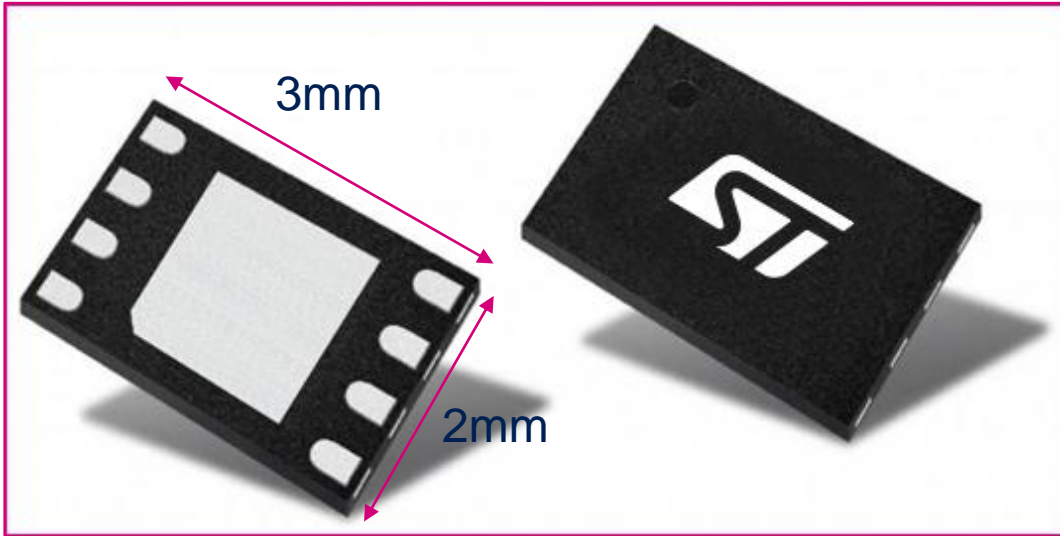
Wi-Fi and  
Bluetooth  
modules

ST's packaging solutions represent a real advantage for designers and are the ideal choice for highly space-constrained applications

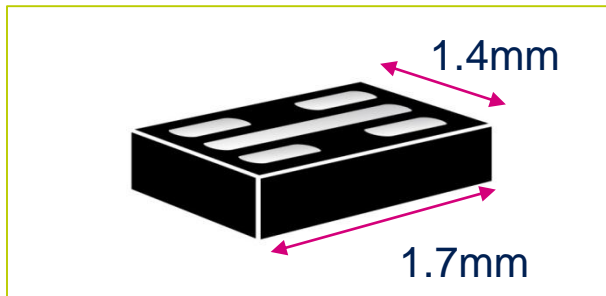
# UFDFPN5 EEPROM advantages

Features	Benefits
Available for I <sup>2</sup> C Available in 16,32,64 and 128Kb	Fits the most popular standard bus and Low to mid density requirements Pin-to-pin compatibility thanks to same footprint for all densities
Weight : 7 mg Size : 1.4 x 1.7 mm	Gain on board space and overall weight
Robust molded package T&R packing	Easy handling and mounting
4 Million Erase/Write cycles 200 data years data retention	More parameters to be updated No reliability issue
Package information document Soldering recommendation T&R packing description	Easier implementation on the board and in production
ECOPACK2®	Compliant to RoHS and halogen free

# UFDFPN8 and 5 package in pictures\*



**Standard** UFDFPN8  
profile: 0.55 mm  
M24C16-FMC6TG  
8 pins



**Small** UFDFPN5  
profile: 0.55 mm  
M24C16-FMH6TG  
5 pins

# UFD FPN EEPROM selection guide

Profile description	Part number	Memory density	Dimension (X/Y) (mm)		Profile (Typ) (mm)	Pinout compatibility	pads
<b>I<sup>2</sup>C bus</b>							
<b>UFD FPN8</b>	M24C02-FMC6TG	2 Kbits	2	3	0.55	All	8
	M24C04-FMC6TG	4 Kbits	2	3	0.55	All	8
	M24C08-FMC6TG	8 Kbits	2	3	0.55	All	8
	M24C16-FMC6TG	16 Kbits	2	3	0.55	All	8
	M24C32-FMC6TG	32 Kbits	2	3	0.55	All	8
	M24C64-FMC6TG	64 Kbits	2	3	0.55	All	8
	M24128-FMC6TG	128 Kbits	2	3	0.55	All	8
	M24256-FMC6TG	256 Kbits	2	3	0.55	All	8
	M24512-FMC6TG	512 Kbits	2	3	0.55	All	8
<b>UFD FPN5</b>	M24C16-FMH6TG	16 Kbits	1.7	1.4	0.55	All	5
	M24C32-FMH6TG	32 Kbits	1.7	1.4	0.55	All	5
	M24C64-FMH6TG	64 Kbits	1.7	1.4	0.55	All	5
	M24128-BFMH6TG	128 Kbits	1.7	1.4	0.55	All	5
<b>SPI bus</b>							
<b>UFD FPN8</b>	M95020-RMC6TG	2 Kbits	2	3	0.55	All	8
	M95040-RMC6TG	4 Kbits	2	3	0.55	All	8
	M95080-RMC6TG	8 Kbits	2	3	0.55	All	8
	M95160-RMC6TG	16 Kbits	2	3	0.55	All	8
	M95320-RMC6TG	32 Kbits	2	3	0.55	All	8
	M95640-RMC6TG	64 Kbits	2	3	0.55	All	8
	M95128-RMC6TG	128 Kbits	2	3	0.55	All	8
	M95256-RMC6TG	256 Kbits	2	3	0.55	All	8
	M95512-RMC6TG	512 Kbits	2	3	0.55	All	8

# UFDFPN EEPROM selection guide

## UFDFPN5 (MH)

Part Number	Introduction Schedule
M24C16-FMH6TG	Mass Production
M24C32-FMH6TG	Mass Production
M24C64-FMH6TG	Mass Production
M24128-FMH6TG	Mass Production



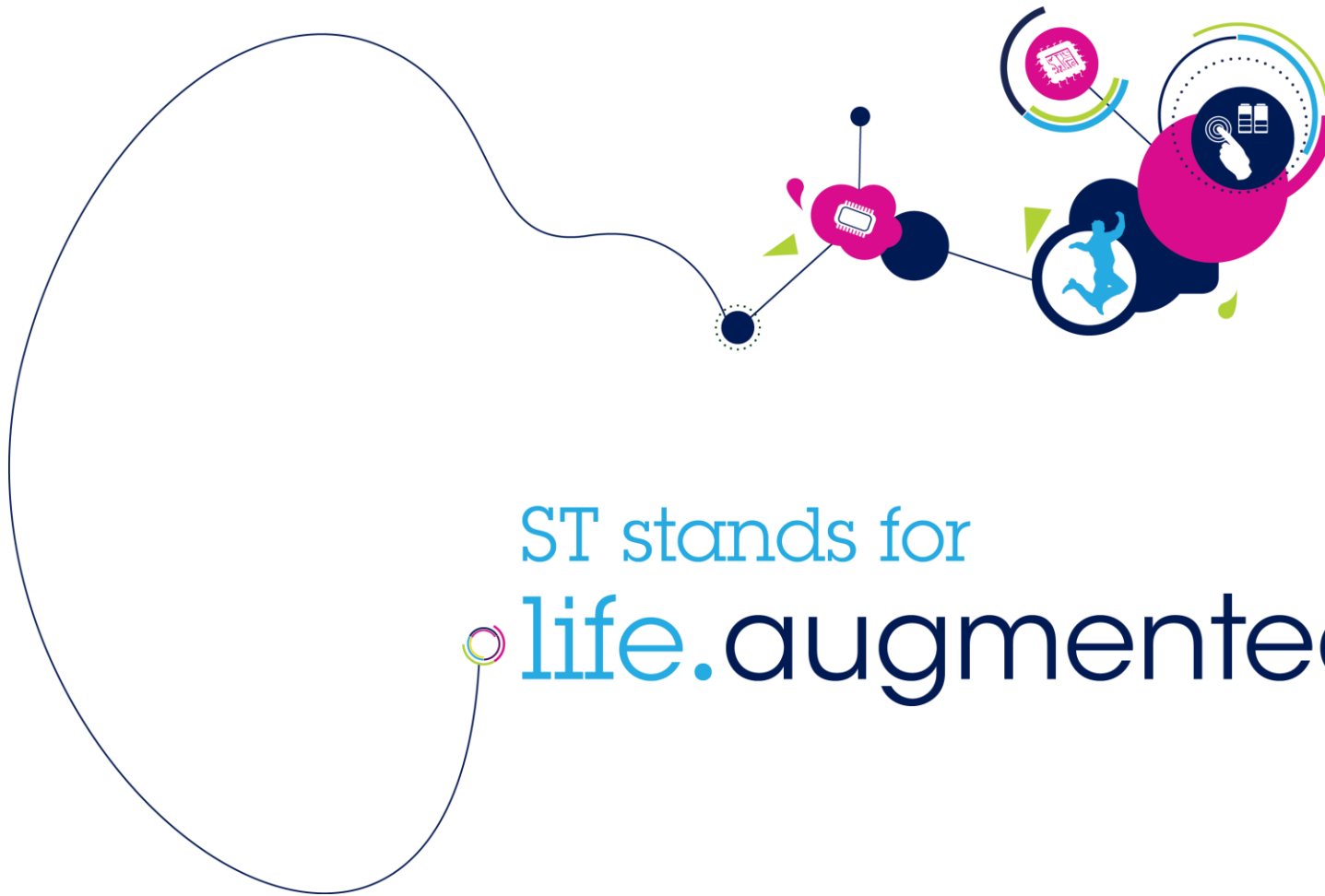
M24C02-FMC6TG
M24C04-FMC6TG
M24C08-FMC6TG
M24C16-FMC6TG
M24C32-DFMC6TG
M24C64-DFMC6TG
M24128-DFMC6TG
M24256-DFMC6TG
M24512-DFMC6TG

M95040-DFMC6TG
M95080-DFMC6TG
M95160-DFMC6TG
M95320-DFMC6TG
M95640-DFMC6TG
M95128-DFMC6TG
M95256-DFMC6TG
M95512-DFMC6TG

ST offers  
FULL  
DFN  
portfolio

## UFDFPN8 (MC)

Thank you!



ST stands for  
**life.augmented**