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High density I²C EEPROM with new F9V process



EEPROM

New F9V process addressing customers needs

Industrial



Mobile



Consumer



Volume in high-density EEPROM

Optimized footprint

Competitive pricing

Consumption effectiveness

F9V

High retention
High endurance

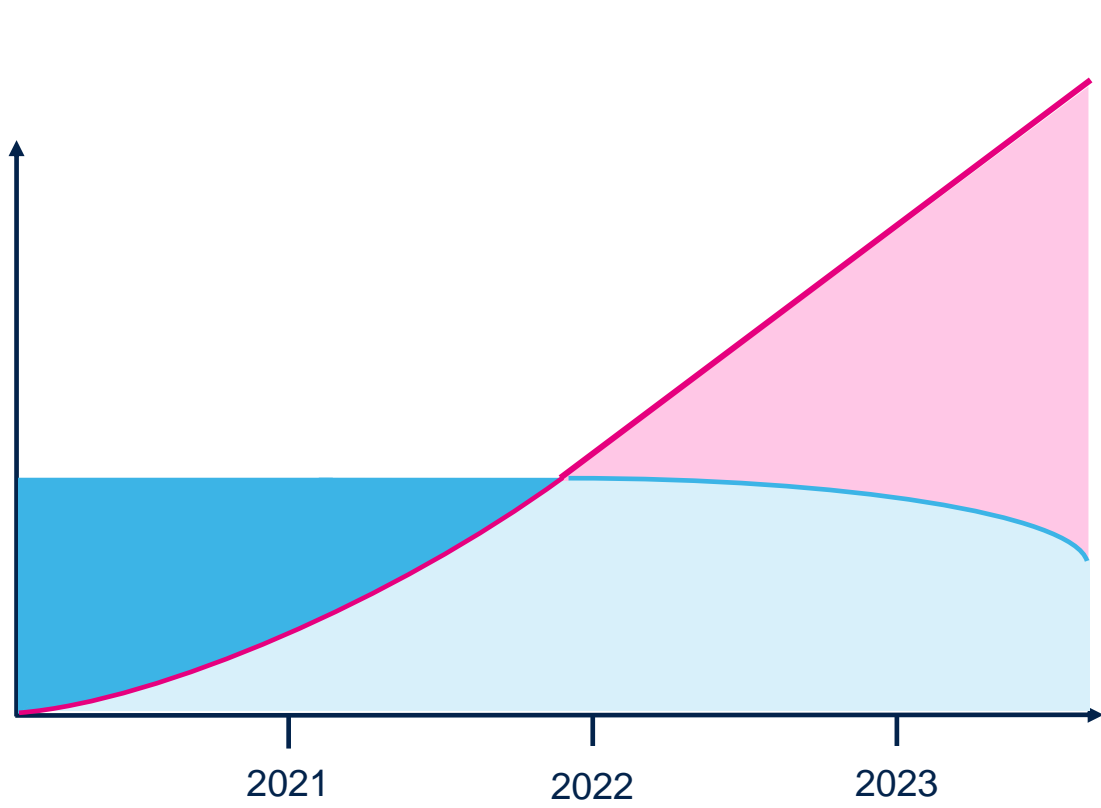
+ new features



ST Technology roadmap

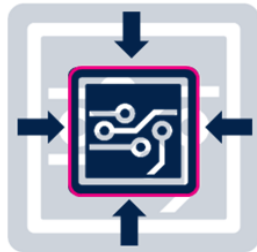
F9V for new design

New design



F9V

Smaller die



New features



Software Write Protection



Custom Device Address

F8H

Consumption optimization

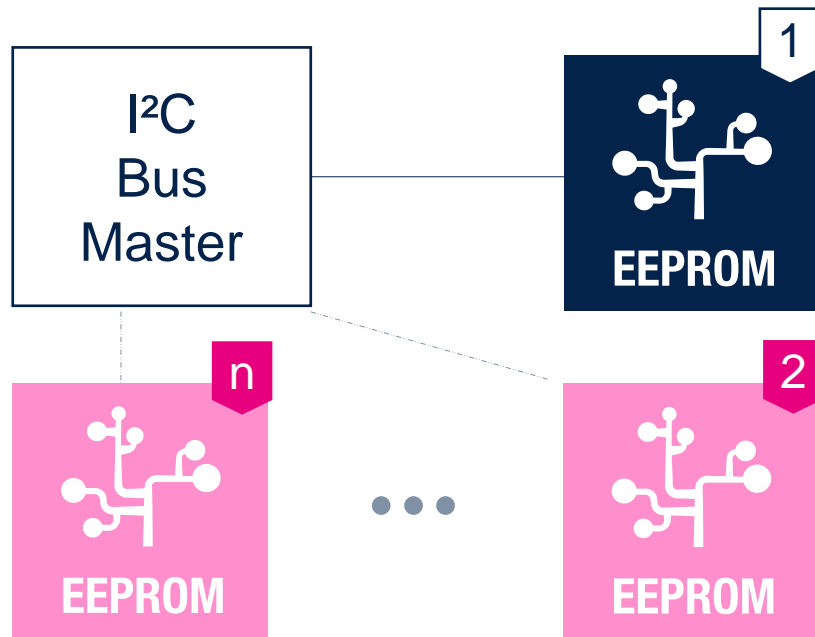


Availability

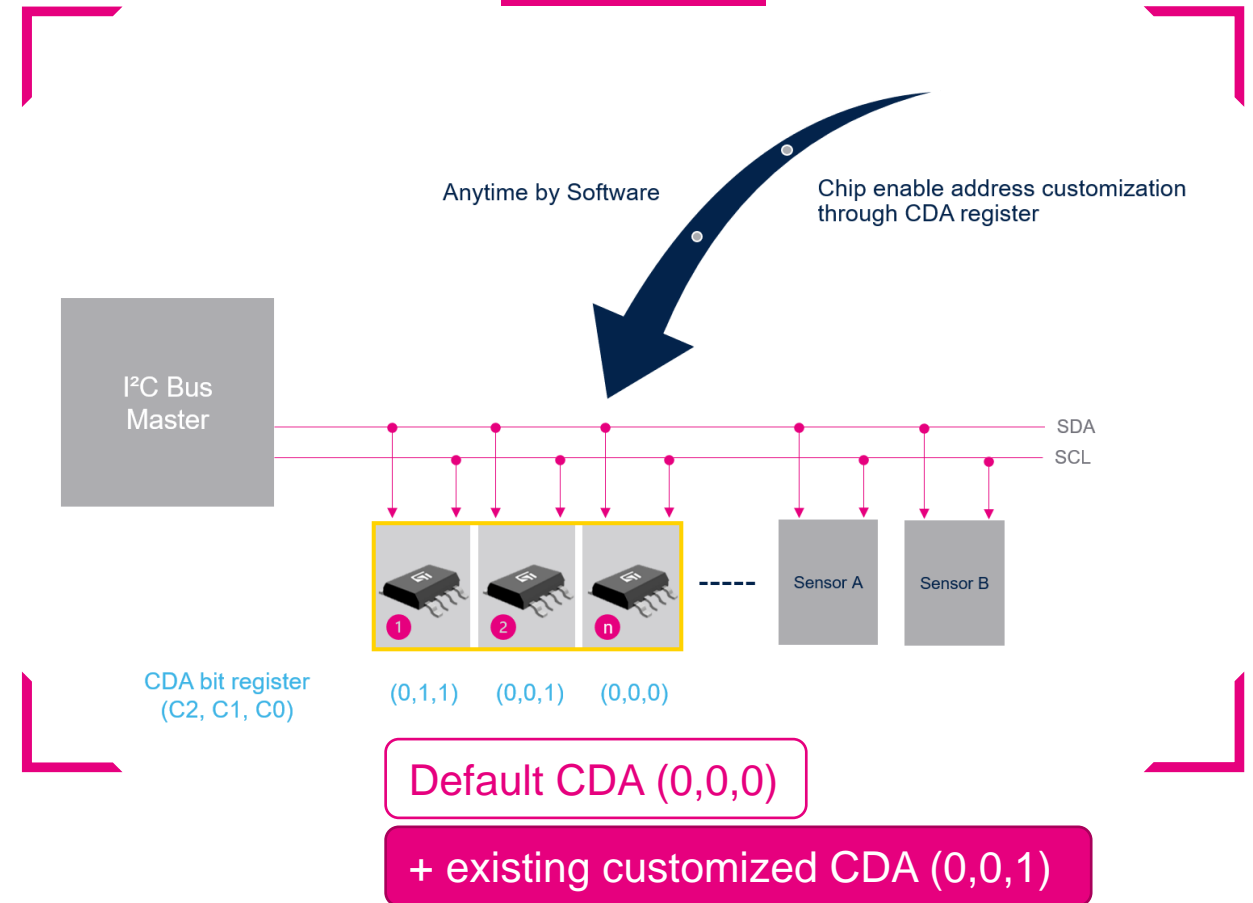


CDA register for multiple EEPROM on same bus

Customer request

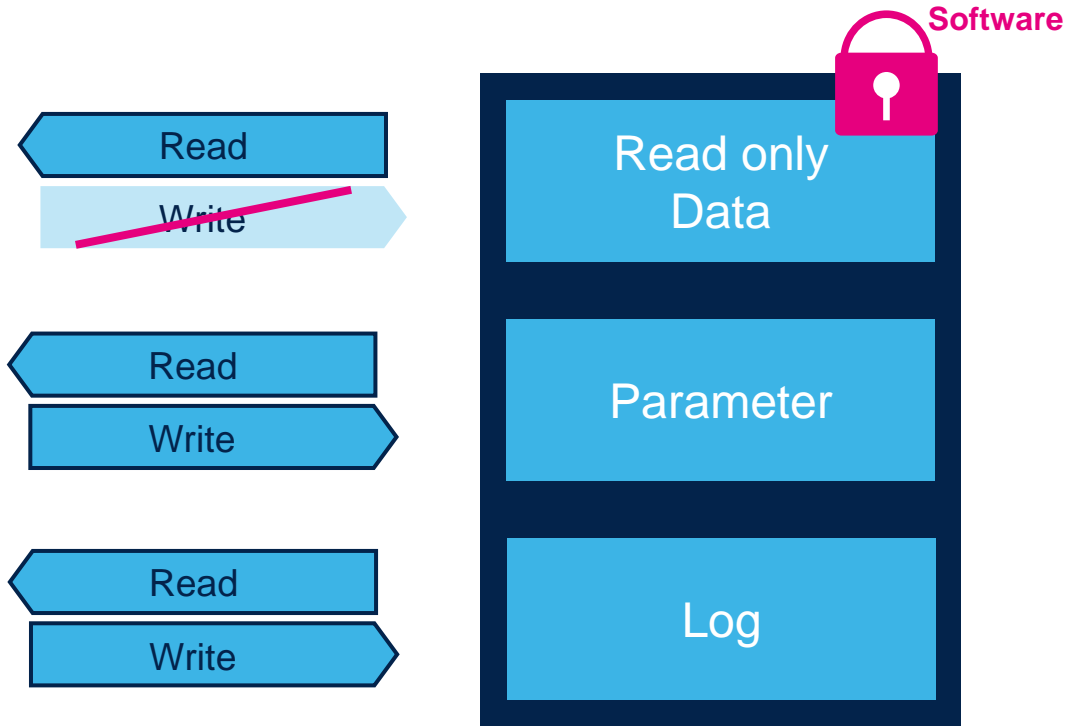


ST feature

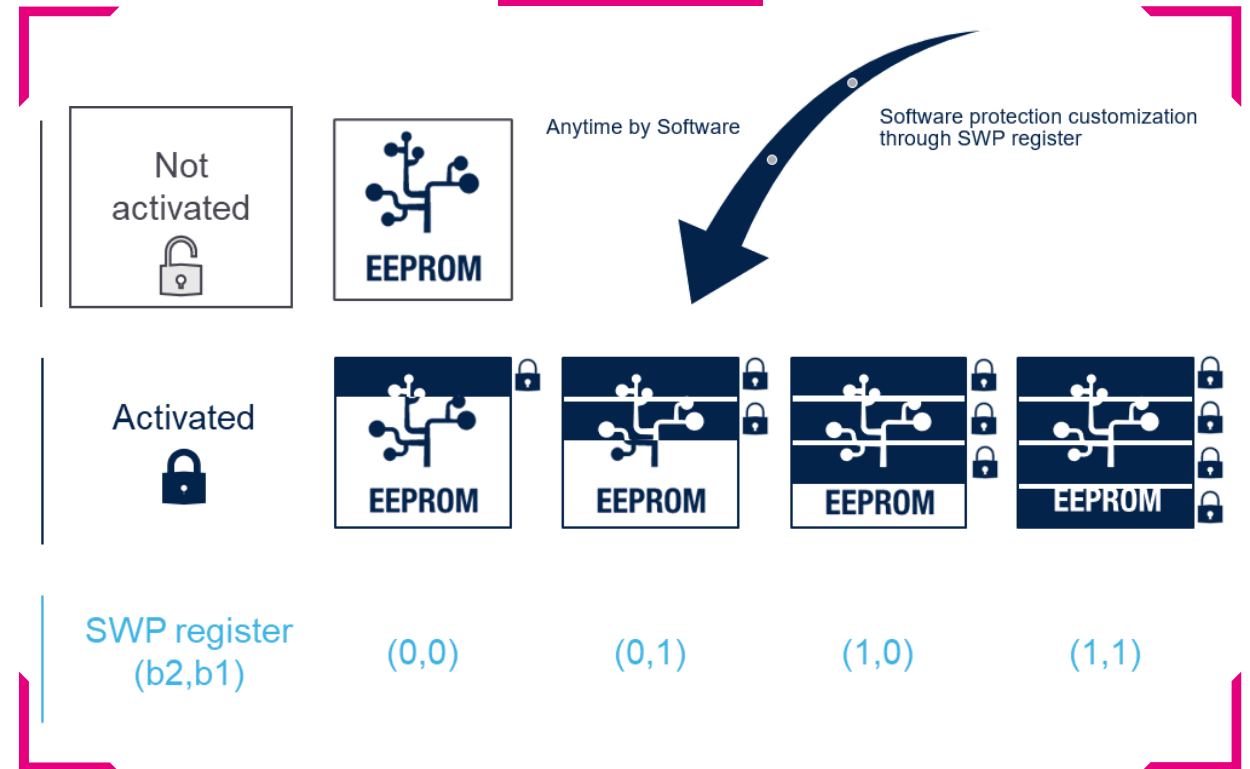


Write Protect Software for data protection

Customer request



ST feature

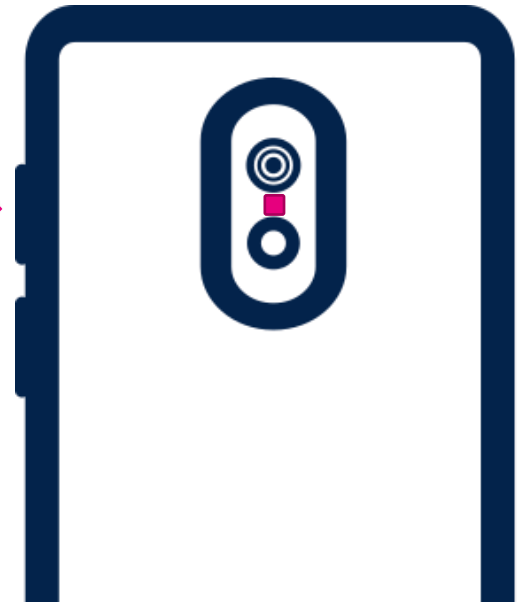
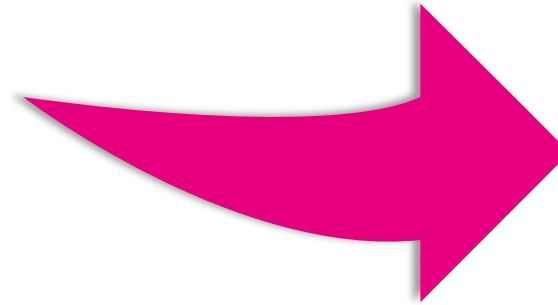
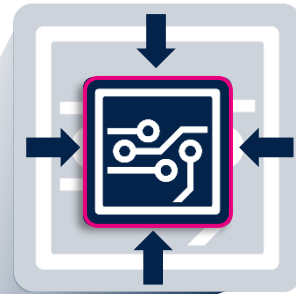


WLCSP designed for mobile

Die size reduced

Improved thickness and footprint






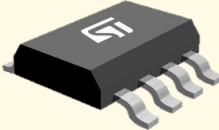




ST advanced
in-house
process



Die size divided by 2 with F9V vs. F8H

F9V process

I²C standard EEPROM portfolio

		PACKAGE						
		WLCSP 4-ball	WLCSP 5-ball	DFN5	DFN8	TSSOP8	SO8N	
		 (*)						
MEMORY DENSITY	256 Kbit (**)	●		●	●	●	●	
	512 Kbit	●			●	●	●	
	1 Mbit	●	●		●	●	●	
	2 Mbit		●		●	●	●	
		Mobile M24...X 	Standard M24...E   					
							APPLICATION	

DATASHEET

M24256X	M24256E
M24512X	M24512E
M24M01X	M24M01E
M24M02X	M24M02E



(*) - No WC (write control) in WLCSP 4-ball package

(**) - No SWP (software write protection) in DFN5, DFN8, TSSOP8, and SO8N packages for 256 Kbit memory density

Our technology starts with You



Find out more at www.st.com/eeprom

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