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## Industrial-plus serial EEPROM 105°C operation

STMicroelectronics – September 2020



EEPROM

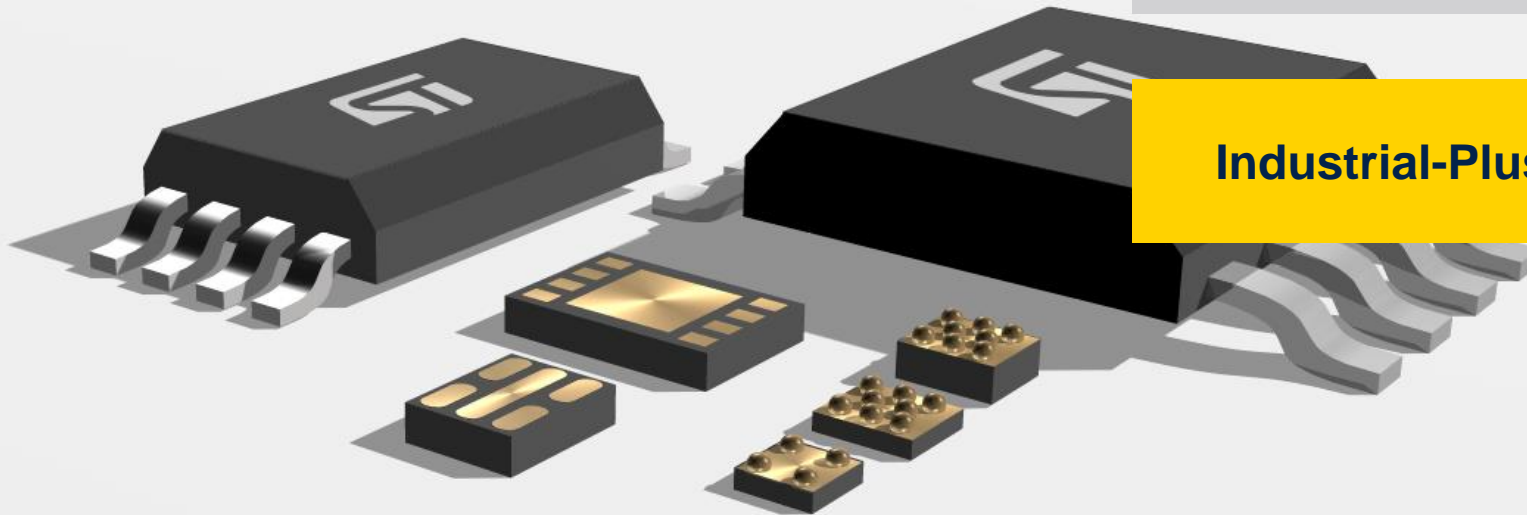


# The world's #1 serial EEPROM supplier

Standard EEPROM portfolio  
Over 25% market share for 15 years

Industrial series operating up to 85°C

Industrial-Plus series operating up to 105°C



# Industrial-plus 105°C applications

EEPROM the first choice for flexible and reliable parameter management in

## Factory equipment



- ✓ Automation
- ✓ PLC controllers
- ✓ Datalogging

## 5G Network



- ✓ Base station
- ✓ Optical modules
- ✓ Switches

## Power Grid infrastructure



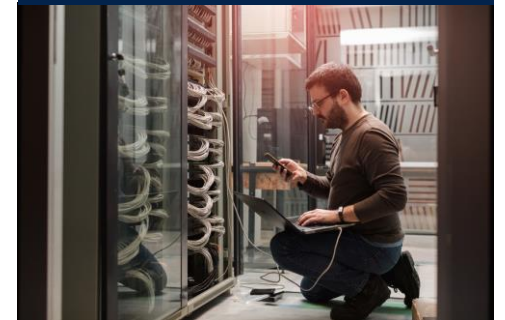
- ✓ Meters
- ✓ Breakers
- ✓ Inverters

## Smart LED & Lighting



- ✓ Street lighting
- ✓ Industrial lighting
- ✓ Smart LEDs

## Network & servers



- ✓ BIOS
- ✓ Riser card
- ✓ Optical modules

## Industrial-Plus 105°C features for robust industrial applications



1.7V min power supply

Byte & page write within 4ms

4 million cycles & 200 years data retention

Identification and Lockable page

Direct plug-in on 1.8V rail

20% Faster programming time versus standard

High endurance for reliable datalogging function

Store and protect sensitive data  
Traceability, serial number, UID

# Industrial-plus 105°C portfolio

		2Kbit	4Kbit	8Kbit	16Kbit	32Kbit	64Kbit	128Kbit	256Kbit	512Kbit	1Mbit
<b>I2C</b>	SO8N	•	•	•	•	•	•	•	•	•	*
	TSSOP	•	•	•	•	•	•	•	•	•	*
<b>SPI</b>	SO8N	•	•	•	•	•	•	•	•	•	*
	TSSOP	•	•	•	•	•	•	•	•	•	*

Note: \* under evaluation

## Ordering codes examples





# Serial EEPROM - make it easy

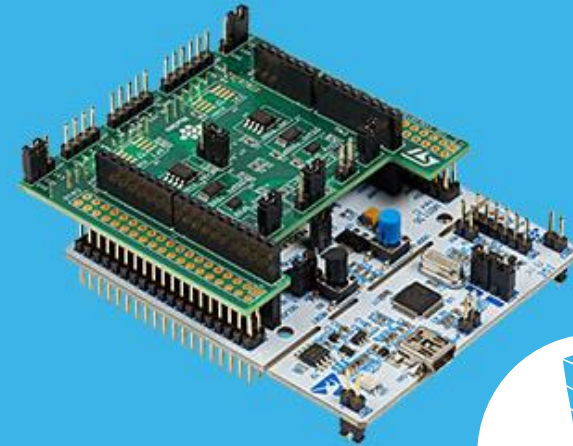
## ST EEPROM Finder app

*Select & order the right EEPROM  
for your design*



## X-Nucleo-EEPRMA2 *Plug-in shield*

*Prototype and validate*



# 105°C industrial plus serial EEPROM summary

Designed to answer new trends of smart industry and harsh environments

- Complete high-performance portfolio
- 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-EEPROMA2 shield
- IBIS and Verilog models available on [st.com](http://st.com)

# Thank you

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