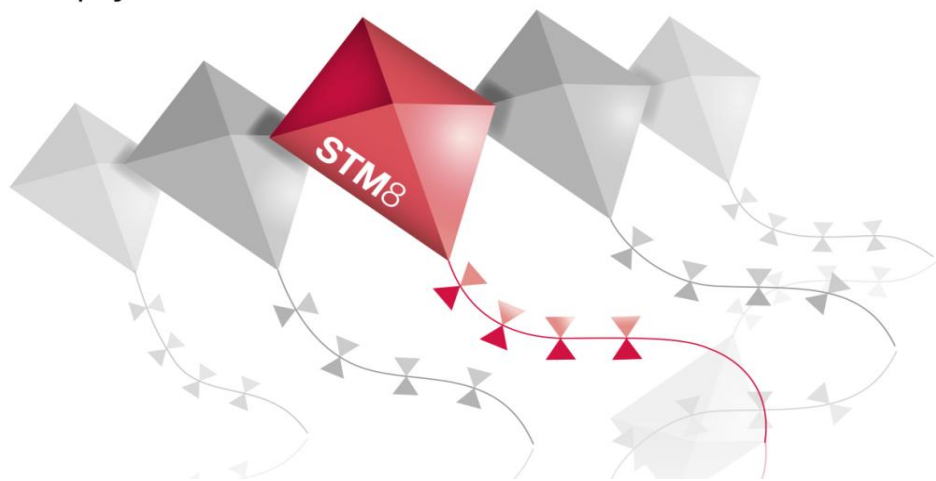


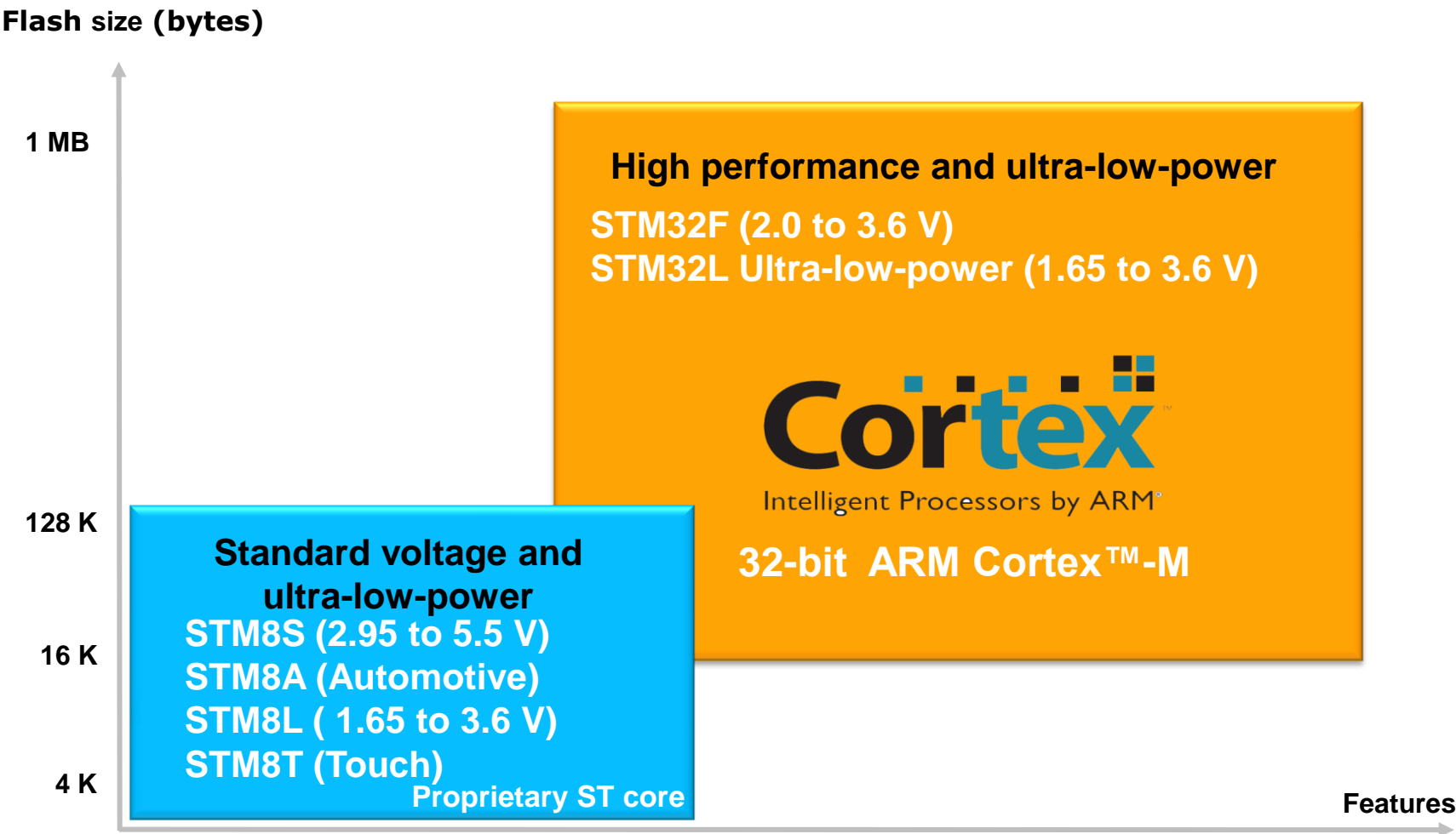
STM8 platform – 8-bit microcontrollers

We shoot for better performance & price

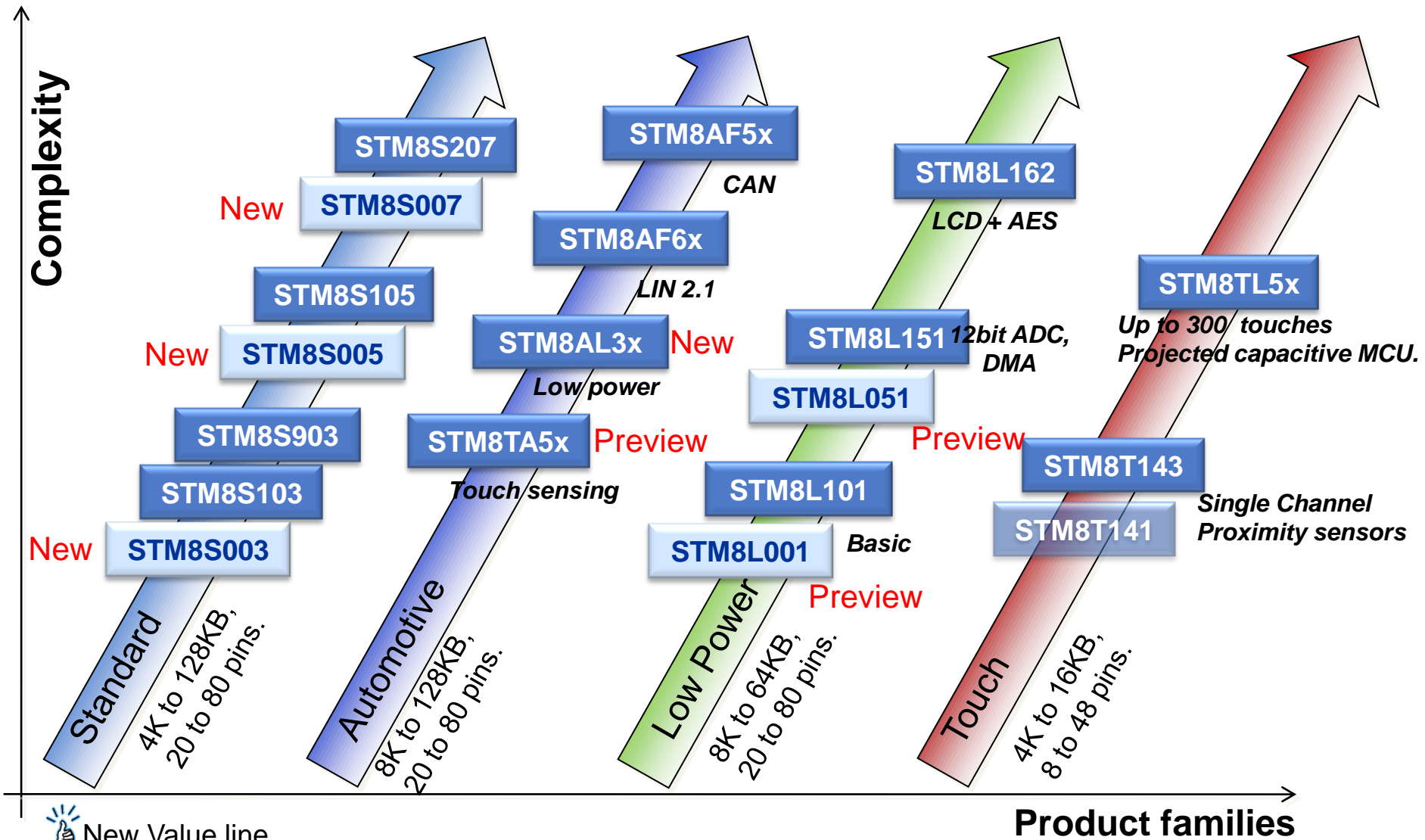
STM8 Simply **smarter**



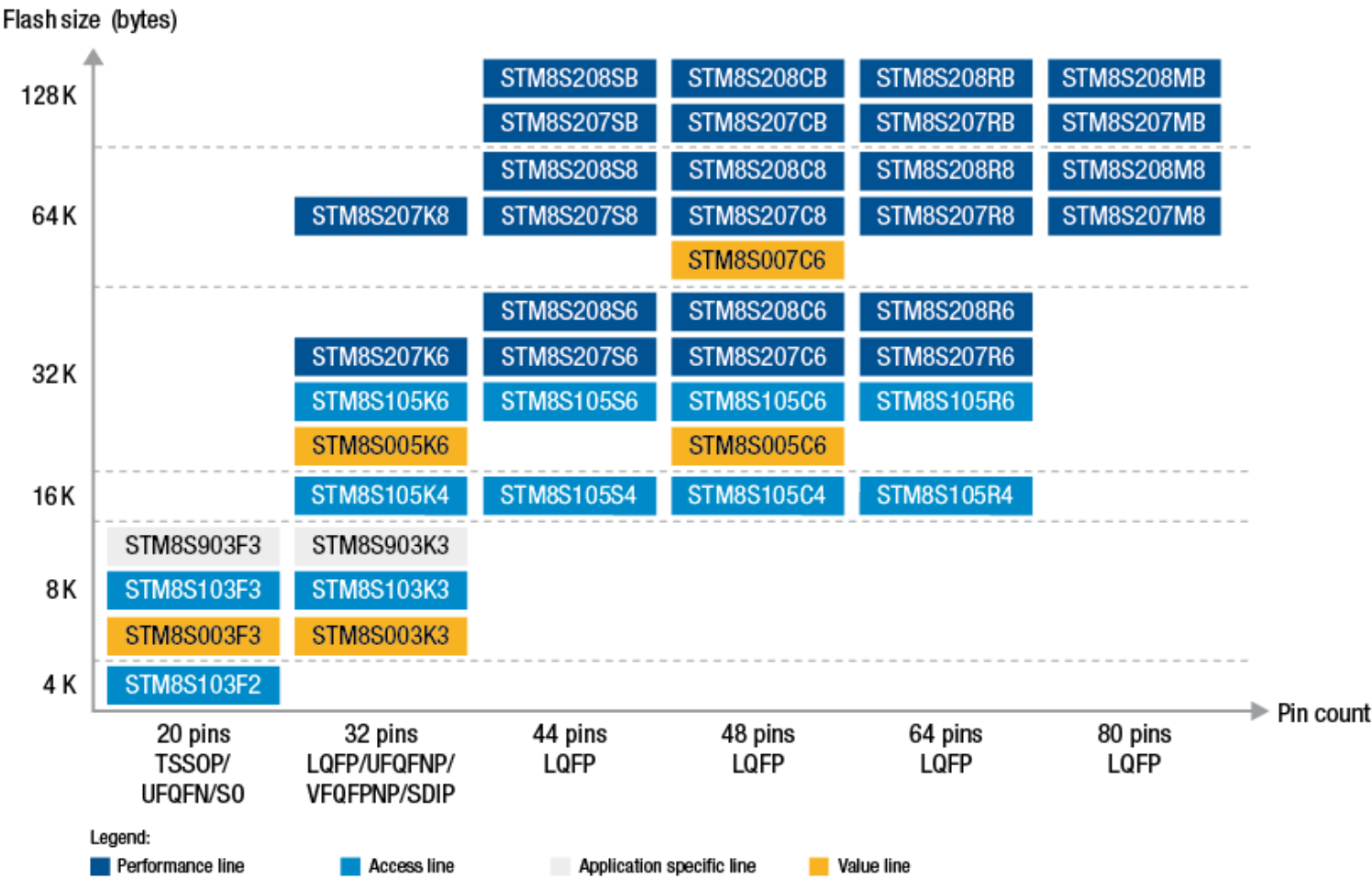
MCD market vision 2



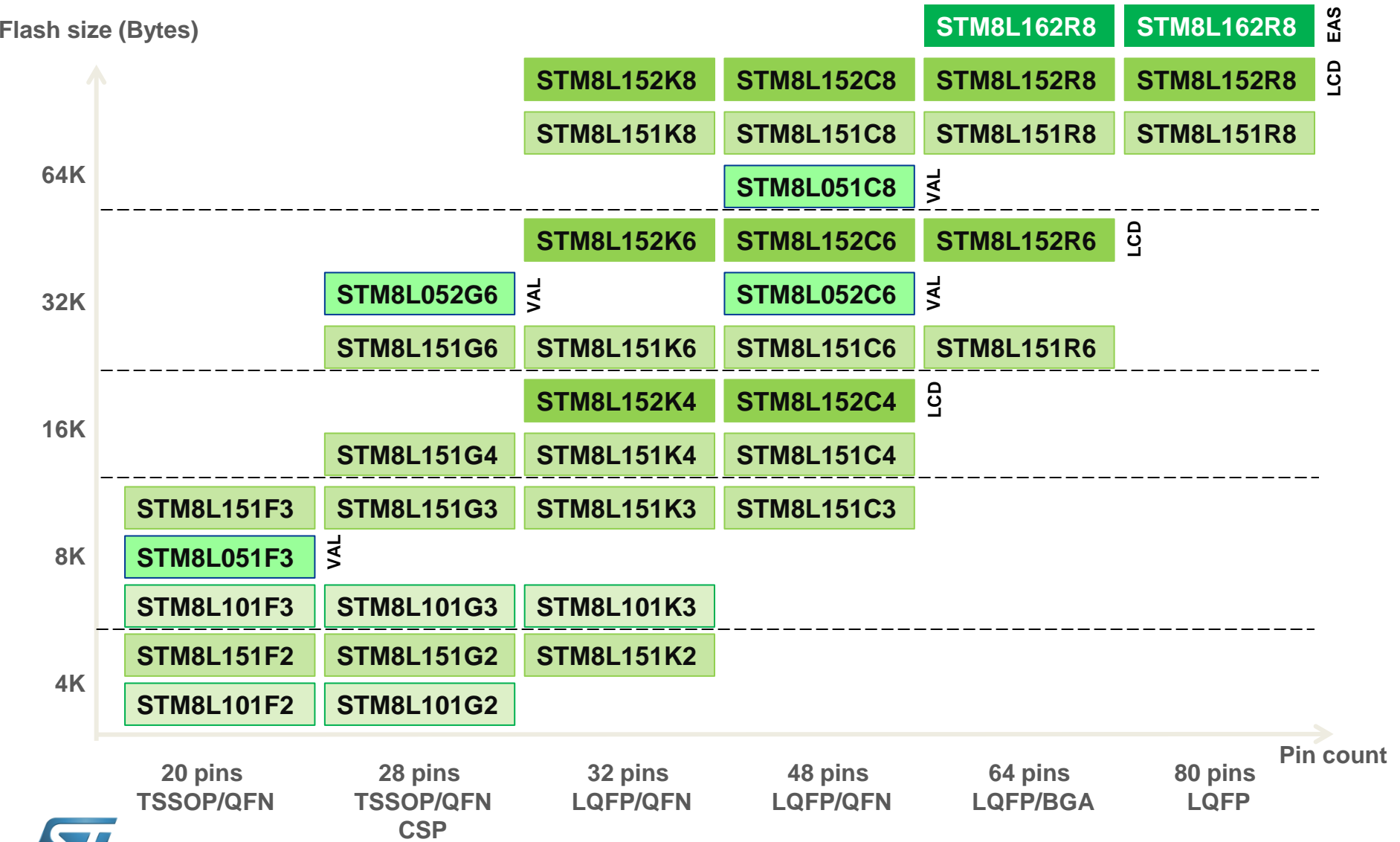
STM8 Product Lines



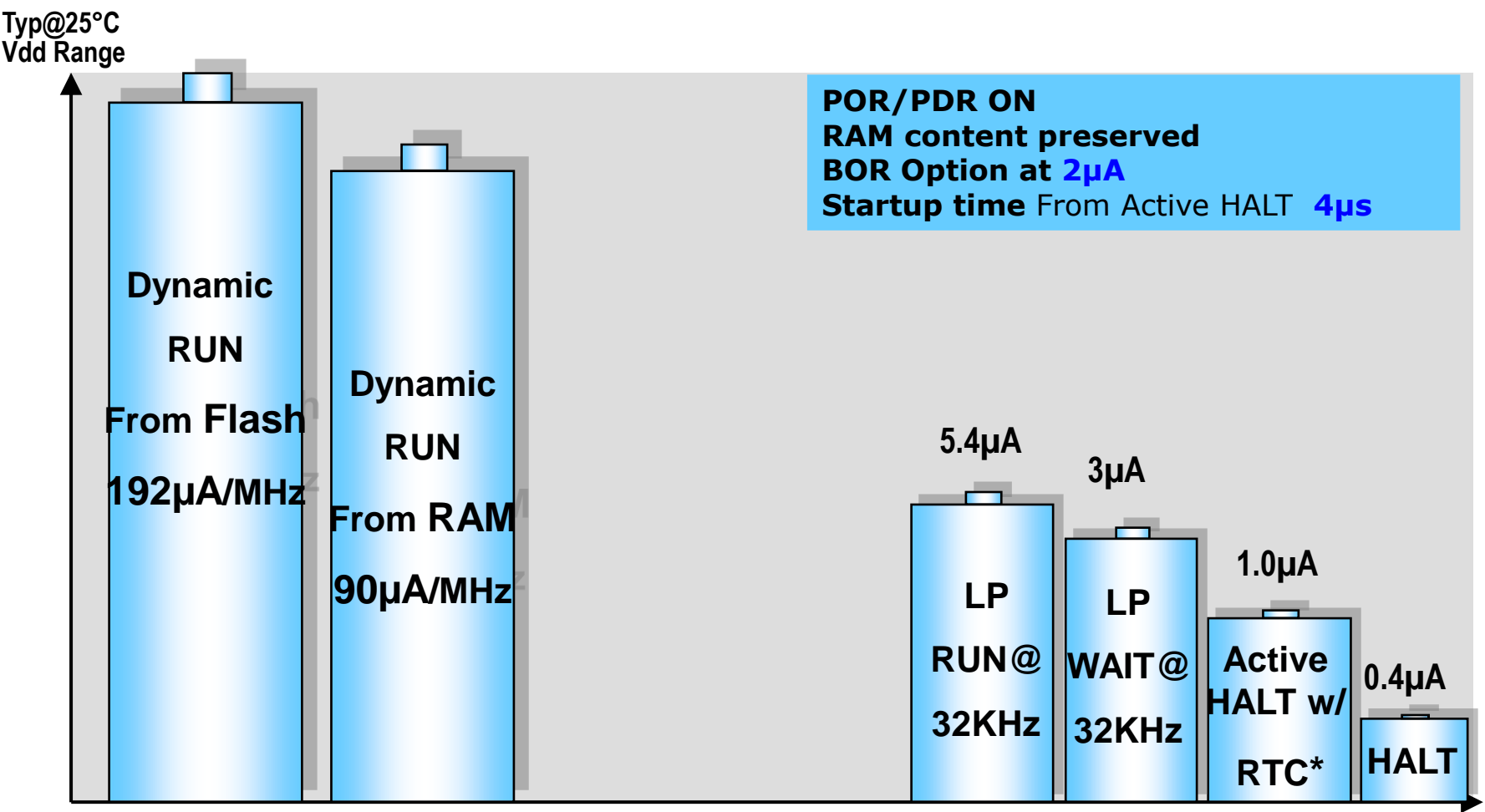
STM8S – Portfolio



STM8L – Product line

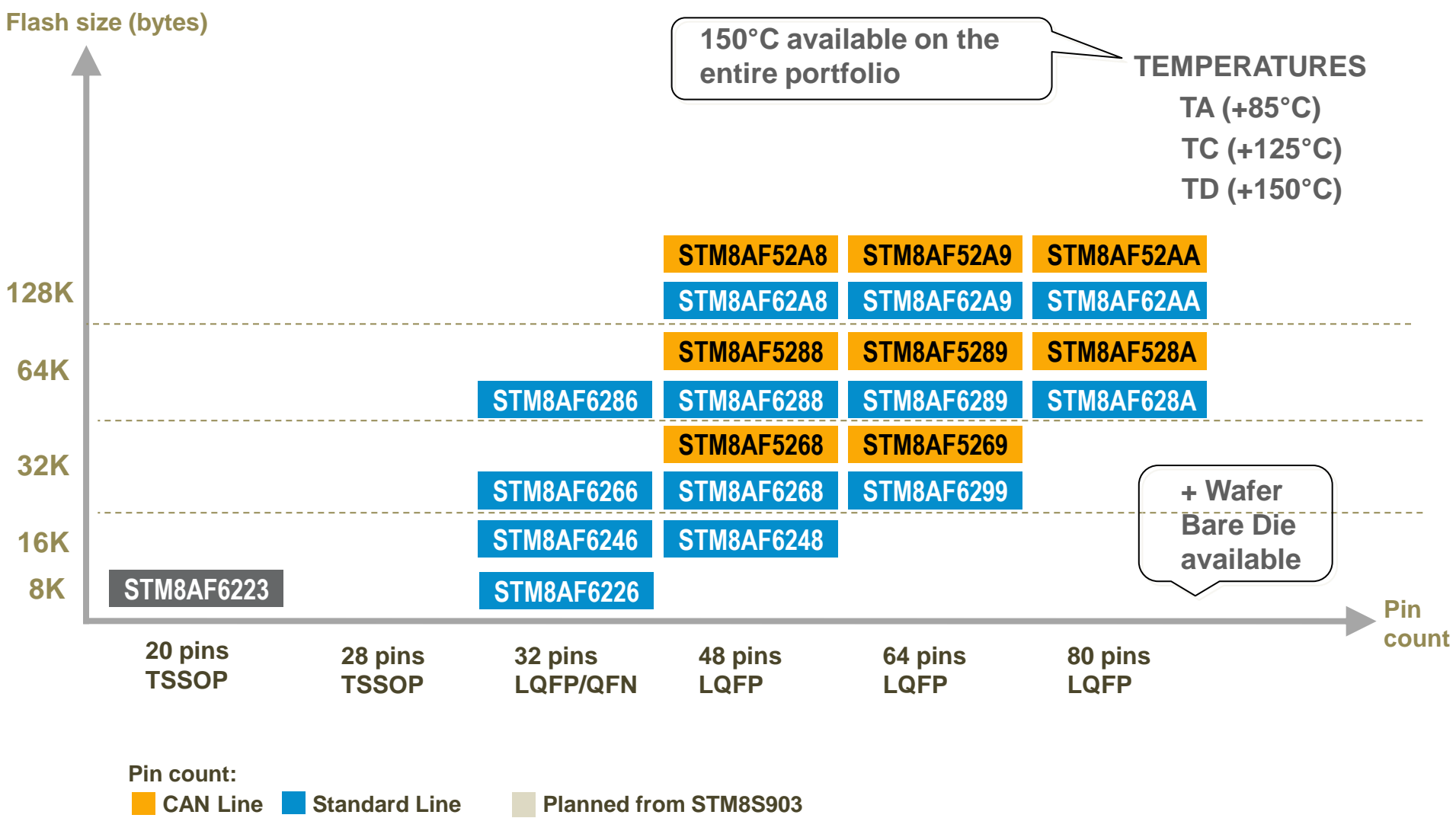


STM8L15x 32K – Low Power consumption

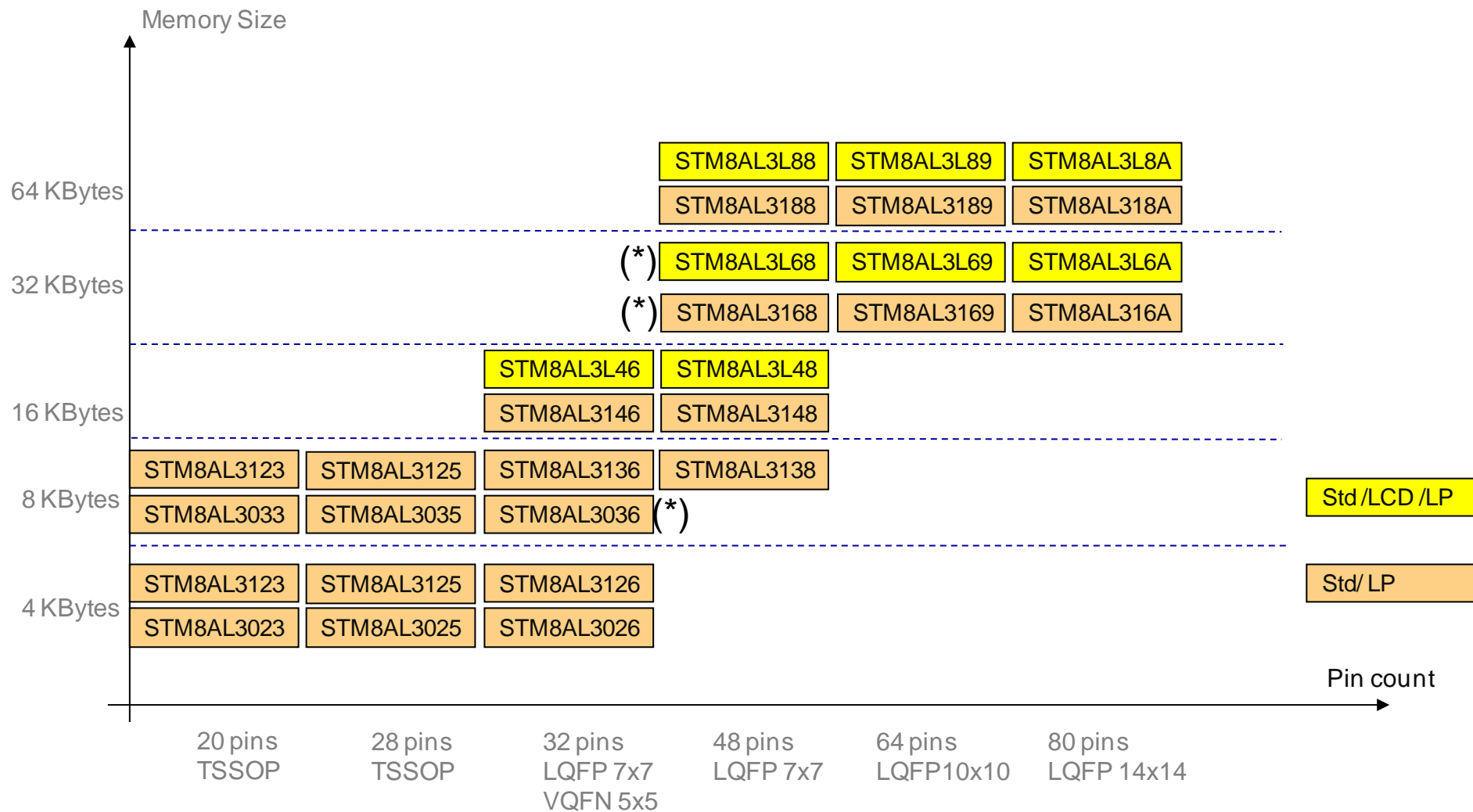


- **LP Wait mode:** LSI/LSE ON, peripherals can be activated
- **ACTIVE HALT mode:** All clocks OFF, RTC ON
- **HALT mode:** All clocks OFF, RTC OFF
- ***Also possible: RTC on LSI:** RTC feed by low speed internal RC, periodic wake up but no accurate calendar function

STM8A – Product portfolio



STM8AL - Portfolio



(*) Samples available now

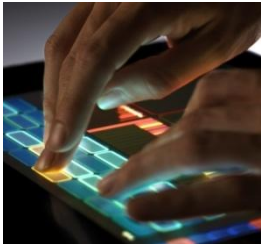
STMTouch™ portfolio 9

STM8T series

STM8T143
Single channel
Capacitive Touch & Proximity
controllers



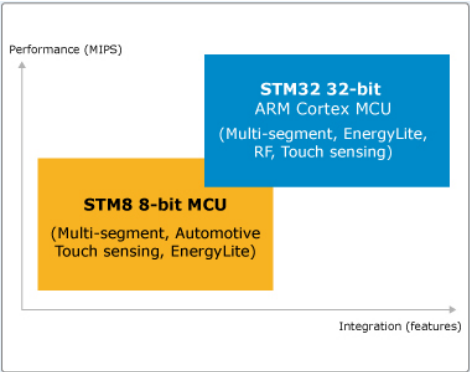
STM8TL5x
Projected capacitive MCU
(Open platform)



General purpose MCUs

STMTouch firmware library
for keys, wheels and sliders

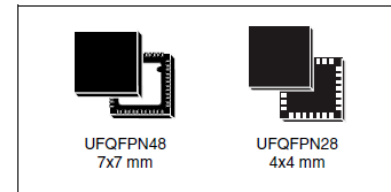
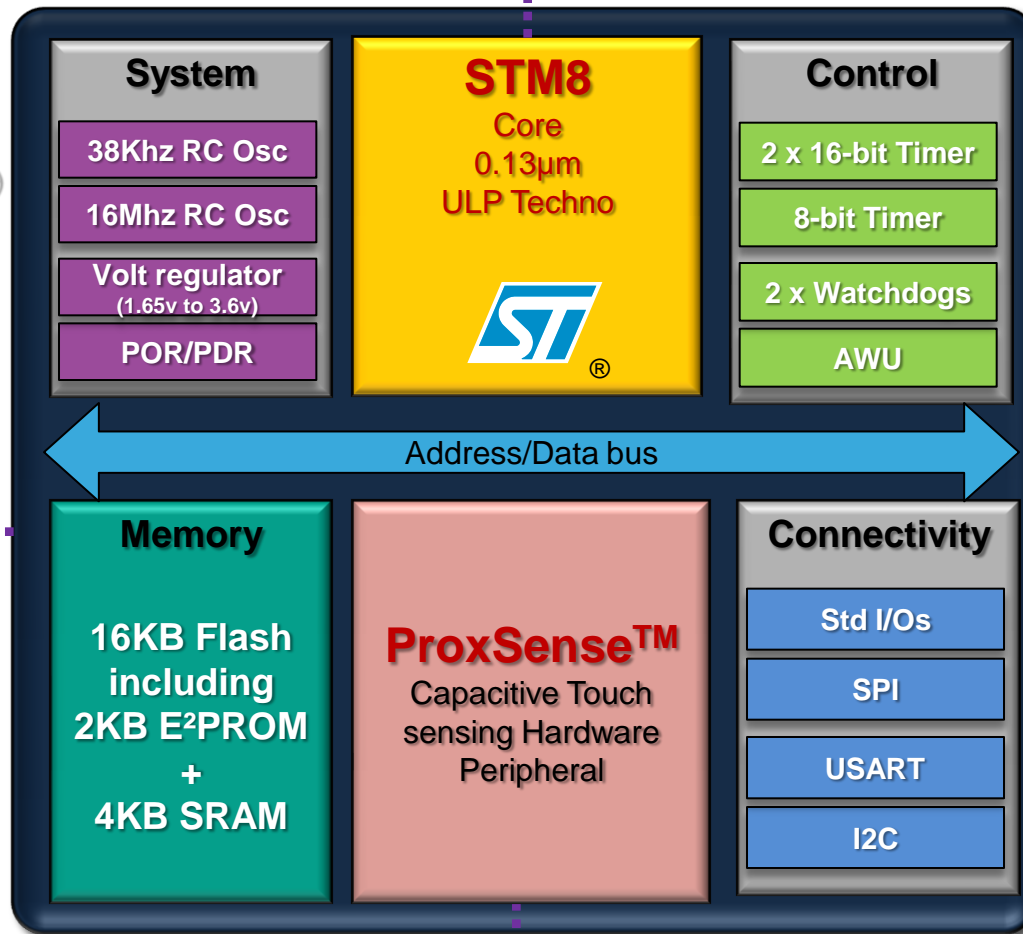
Ported on STM8 and STM32



STM8TL5x multi-channels touch sensing mcus

- **STM8** Flash Mcu
- Low voltage (1.65v/3.6V)
- Ultra low power
- Optimed BOM

Touch sensing C
Firmware library to
support Touch
keys, wheels,
sliders, proximity
etc...

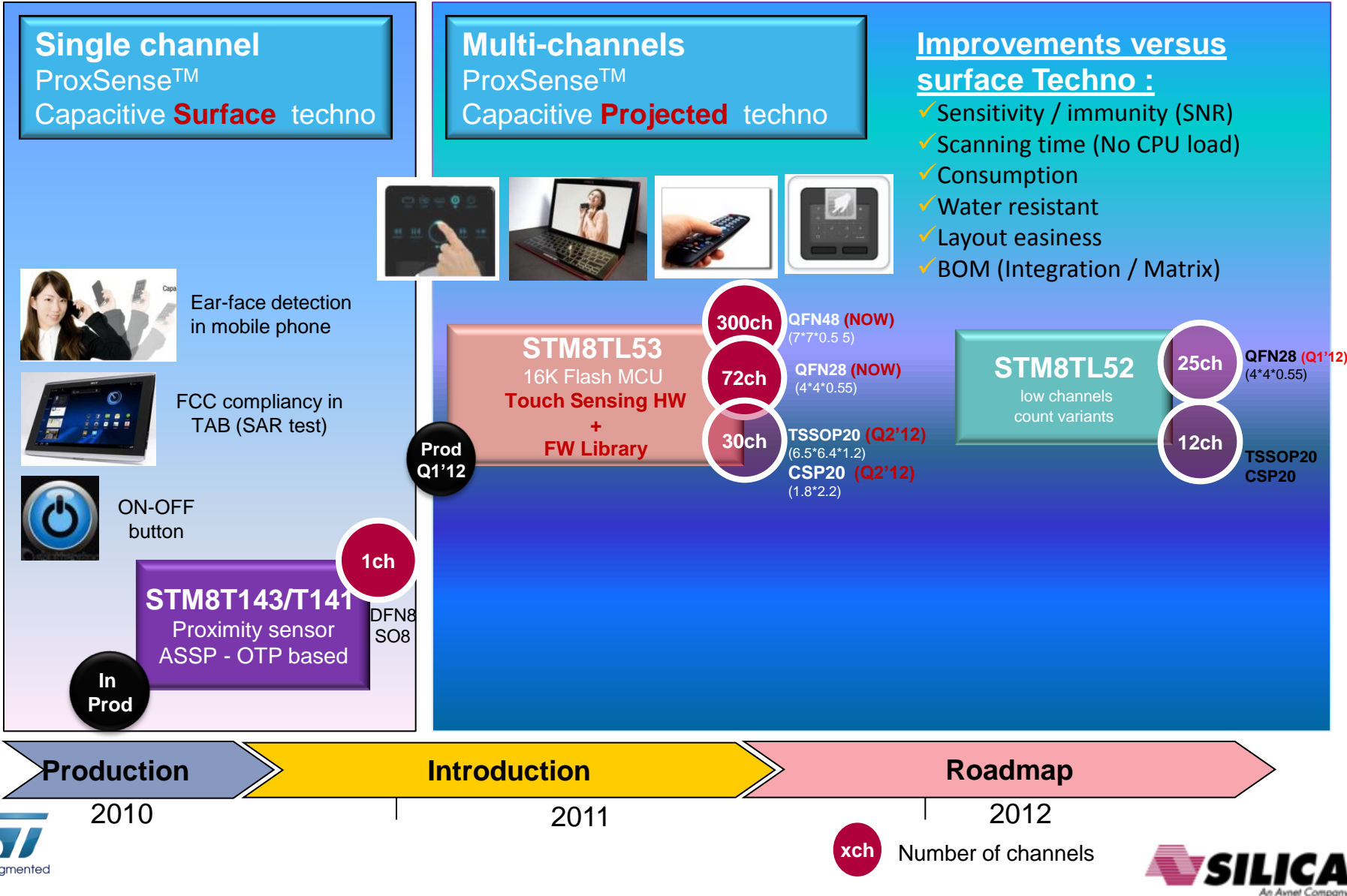


Build-in **ProxSense™**
projected capacitive
sensing acquisition
technology
•Up to 300 projected
channels (20Rx + 15Tx)

ProxSense™ features & benefits

Features	Benefits
✓ Projected acquisition	<ul style="list-style-type: none">• Highest sensitivity / robustness (SNR = 300:1 - 2 sigma)• Dielectric penetration / Proximity capability• Waterproof capability
✓ 32 sizes of build-in sampling capacitors for each receiver (Rx)	<ul style="list-style-type: none">• Immune to interference, dynamic control over the size of the capacitor and saving on external pin count.
✓ Automatic Electrode Tuning (AET) ✓ Electrode Parasitic Capacitance Compensation feature	<ul style="list-style-type: none">• Sensors are automatically tuned to optimal performance by a combination of software algorithms and hardware circuits.• Board layout easiness
✓ RF Noise detection module (RF input pin)	<ul style="list-style-type: none">• To prevent the acquisition to be contaminated by a specific RF disturbance
✓ Input pin to synchronized acquisition with an external event	<ul style="list-style-type: none">• Ex : allow precise measurement in presence of cyclic disturbances
✓ On-chip regulator and Internal clock	<ul style="list-style-type: none">• Integration / Lowest system cost / Power consumption
✓ 3 low power modes including Active-halt with wake-up from ProxSense™ event	<ul style="list-style-type: none">• Optimize the application power consumption

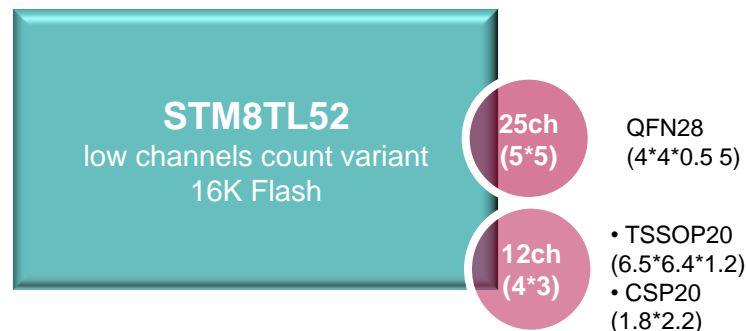
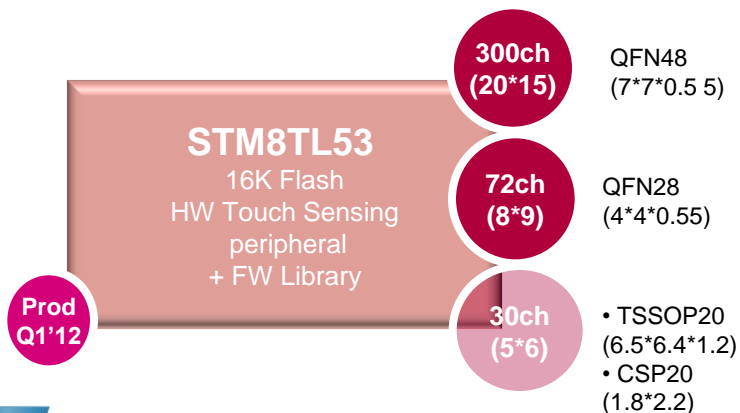
STM8T product road map



STM8TL5X ordering information

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P/ns	Package	Nb of channels	Sampling	Production
STM8TL52F4P6	TSSOP20	Up to 12 Channels (5Rx+2Tx)	Q2'2012	Q3'2012
STM8TL52CSP	CSP20 (1.8*2.2)	Up to 12 Channels (5Rx+2Tx)	Q3'2012	Q4'2012
STM8TL52G4U6	UQFPN28 (4*4)	Up to 25 Channels (8Rx+2Tx)	Q1'12 – under creation	Q1'2012
STM8TL53F4P6	TSSOP20	Up to 30 Channels (5Rx+6Tx)	Q2'2012	Q3'2012
STM8TL53CSP	CSP20 (1.8*2.2)	Up to 30 Channels (5Rx+6Tx)	Q3'2012	Q4'2012
STM8TL53G4U6	UQFPN28 (4*4)	Up to 72 Channels (8Rx+9Tx)	Now	Q1'2012
STM8TL53C4U6	UQFPN48 (7*7)	Up to 300 Channels (20Rx+15Tx)	Now	Q1'2012



STM8 development tools

A wide choice of solutions.

starter kits Numerous boards



STM8L101-EVAL
STM8L1526-EVAL



STM8/128-EVAL



STM8-SK/RAIS



ST-ICE

STM8 promotion kits



STM8L-PRIMER



STM8S-DISCOVERY
STM8L-DISCOVERY
STM8SVLDiscovery



STM8/128_MCKIT



ST-LINK

IDE solutions



STVD



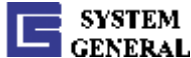
EWSTM8



RIDE (*)



IDEA (*)



(*) up to 32 KB C compiler free of charge



STM8 – Key messages

- **Robust and Reliable** products
- **Complete platform** 4 kB to 128 kB,
20 pins to 80 pins
- **True EEprom**, 130nm technology, **ECC**
- **Lower system cost**
- Friendly IDE with free software suite
- **Ultra low power & automotive** families
- 4 families dedicated for Automotive, Industrial ,
Touch sensing and portable applications.



STM8 Simply Smarter