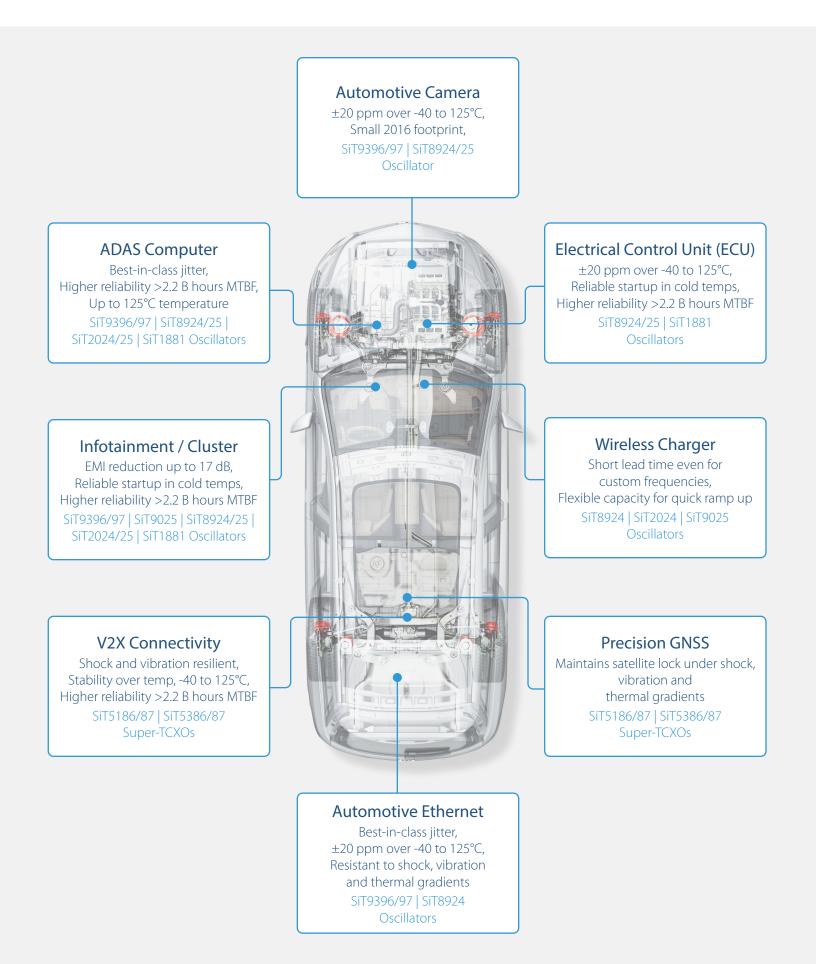


# MEMS Timing Solutions for Automotive

- Best-in-class performance in harsh environments
- Purpose built for ADAS and in-vehicle safety applications
- Higher quality and reliability than traditional alternatives
- AEC-Q100 qualified, IATF16949 certified, PPAP available

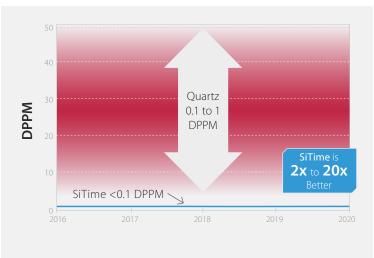
The heartbeat of ADAS<sup>™</sup>



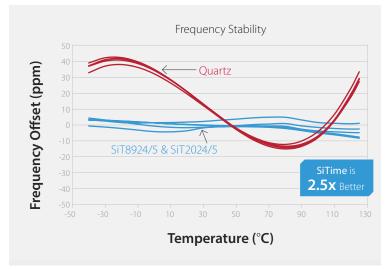




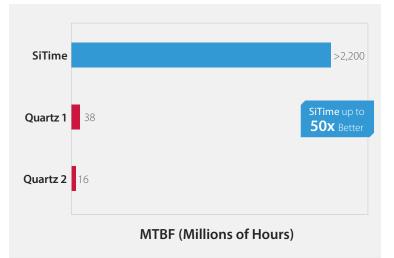
## Higher Quality



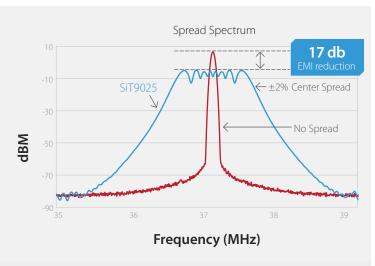
# Tighter Stability



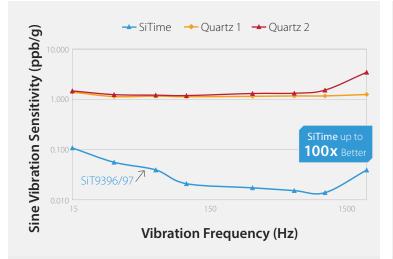
# Higher Reliability



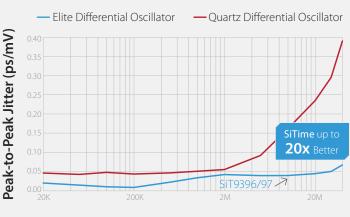
## Better EMI Reduction



## Immune to Vibration



## Better Noise Rejection



Injected Noise Frequency (Hz)



## AEC-Q100 MEMS Timing Solutions for Automotive

SiTime Base Part No.	Output Frequency	Temperature Range (°C)	Frequency Stability (ppm)	Supply Voltage (V)	Packages (mm x mm)	Output Logic	Features
QFN OSCILLATORS   Pin-compatible QFN   Short lead time even for custom frequencies							
SiT8924 SiT8925	1 to 110 MHz 115.2 to 137 MHz	-40 to +85, -40 to +105, -40 to +125	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5, 5.0 x 3.2 7.0 x 5.0	LVCMOS	8 output drive strength options, Field Programmable
SOT23 OSCILLATORS   Best solder-joint reliability   Short lead time even for custom frequencies							
SiT2024	1 to 110 MHz	-40 to +85, -40 to +105, -40 to +125	±20, ±25, ±30, ±50	1.8, 2.5 to 3.3	SOT23-5: 2.9 x 2.8	LVCMOS	8 output drive strength options, Field Programmable
SiT2025	115.2 to 137 MHz						
DIFFERENTIA	L OSCILLATORS	Best-in-class jitter   Wic	de frequency range				
SiT9396	1 to 220 MHz	-40 to +125	±20, ±25, ±30, ±50	1.8, 2.5, 3.3	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5	LVPECL, LVDS, HCSL, Low-power HCSL, Flex- Swing	Ultra-low jitter, small size, 125°C
SiT9397	220 to 920 MHz						
EMI REDUCTION OSCILLATORS   Most flexible EMI reduction options   Low cycle-cycle jitter							
SiT9025	1 to 150 MHz	-40 to +85, -40 to +105, -40 to +125	±20, ±25, ±50	1.8, 2.5 to 3.3	QFN: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5	LVCMOS	40 spread options, up to ±2.0%, down to -4.0%, Smallest, Field Programmable
TCXO/VCTCXO/DCTCXO   ±6.25 to ±3200 ppm pull range   5 ppt resolution frequency control							
SiT5186 SiT5187 SiT5386	1 to 220 MHz	-40 to +85, -40 to +105	±0.5, ±1, ±2.5	2.5, 2.8, 3.0, 3.3	SMD: 5.0 x 3.2	LVCMOS, Clipped Sinewave	I2C programmable, 1 ppb/°C slope, Field Programmable
SiT5387			±0.1, ±0.2, ±0.25				
32 KHZ OSCILLATORS   Small size   Low power   Reliable startup in cold temperature							
SiT1881	32.768 kHz, 1 Hz to 262.14 kHz	-40 to +105	±50, ±100	1.14 to 1.35, 1.62 to 3.63	QFN: 1.2 x 1.1	LVCMOS, Reduced Swing	Low current: 490 nA; Small footprint: 1.32 mm <sup>2</sup>

#### Field Programmable Oscillators – Always Available



ANY FREQUENCY



ANY VOLTAGE ANY STABILITY



### Easy-to-use programming kit

- Don't waste time searching & waiting for timing devices
- Optimize system performance with customer parameters
- Easy to convert design program parts to production



