



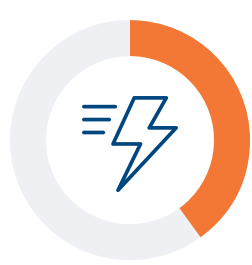
# Gauge the GlobalFoundries difference

GF puts you on the road to RADAR innovation

## COMPARE THE GF® NUMBERS

**22FDX™ outpaces 28 nm bulk CMOS for highest mmWave RADAR performance and quality\***

### Greater range and accuracy



**40% less**  
Power consumption



**50% more**  
Power added efficiency (PAE)



**20% reduced**  
Chip area

### Key enabling capabilities



Higher resolution

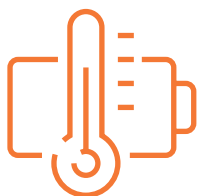


Longer range



Sensor miniaturization with maximum performance

### Better thermal management



**Automotive Grade 1 rating**

### Reliable volume production



Industry standards and certifications (IATF 16949, AEC Q100, QR-001, VDA)



Fab 1 plant in Dresden, Germany



Low geo-political and low natural disaster risks



Strong protection of intellectual property



Post-fab turnkey services (Auto Grade 1 packaging, mmWave RF test expertise)

## RACE AHEAD WITH THE INDUSTRY

**\$54 billion by 2023: Size of automotive semiconductor market<sup>‡</sup>**



**10% CAGR**  
Growth in long/medium/short range radar (2019-2030)<sup>§</sup>



**\$613 by 2025**  
Average semiconductor cost per car.<sup>‡</sup>



**Over 300M**  
Number of automotive radar modules that will be shipped annually by 2030.<sup>§</sup>

## GF LEADS THE INDUSTRY

- 15+ years of automotive production experience
- Over 2 billion die shipped
- AutoPro™ technologies that meet or exceed automotive industry standards
- Only foundry with world-class in-house mmWave test capability (including 80 GHz test)
- mmWave reference designs



GLOBALFOUNDRIES®

Learn more at [globalfoundries.com/contact-us](https://globalfoundries.com/contact-us)

\* Compared to equivalent competitor nodes that use planar CMOS process technology  
 † Wells Fargo Securities: based on IHS, Gartner, Wall Street Research and GF internal assessments  
 ‡ Reference: IHS Markit Automotive ECU Database - 2019

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