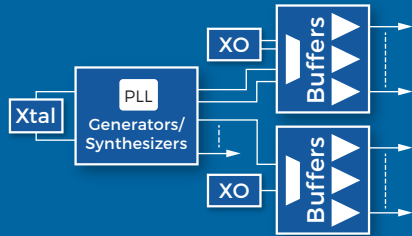


# Automotive Timing Solutions



## Design tools

Crystal/Oscillator  
Search Tool, Sales  
Support & Sample  
Request



- Customizable crystal and XO characteristics
- IBIS and 3D STEP models
- Fast sample support
- Evaluation boards upon request
- Schematics and layout review
- Crystal matching service
- PCB debug support

## Commercial value

- Cost-effective solutions
- Short lead times; expedited delivery upon request

## Applications

- ADAS / LIDAR
- Telematics (T-Box)
- Electronic Control Units
- Infotainment
- Automotive exterior lighting

## Automotive-Compliant\* Frequency Control Products (FCP) & Clocks

Crystals + Oscillators + ICs from a single vendor;  
Optimized performance, cost, and ease of design



### Clock Buffer IC

- Additive jitter as low as 10fs
- 1, 2, 4 outputs
- LVCMOS, LVDS outputs



### PCIe Clock Gen and Clock Buffer IC

- PCIe 6.0/ 5.0/ 4.0/ 3.0 support
- Generators: 2, 4, 6, 8 outputs
- Buffers: 4 outputs



### Real-Time Clock IC

- Full-featured, single/dual supply, I<sup>2</sup>C Interface, integrated crystal
- Qualified to AEC-Q100 Grade 1
- Temperature compensated:  $\pm 10$ ppm for -40°C to +125°C



### Crystals and Crystal Oscillators

- Standard and custom frequencies
- CMOS, LVPECL, LVDS, LP-HCSL, HCSL, CML outputs
- Packages as small as 1.6 x 1.2 mm
- Crystals up to Grade 0, 150°C

## Automotive-compliant

- AEC-Qualified, manufactured in IATF 16949 certified facilities, supporting PPAP

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