

# PLA133

## Advanced Fanout Buffer Designed for Automotive Applications

### Summary

The PLA133 family of LVC MOS buffers are qualified to AEC-Q100 for grade 1 automotive applications  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . 4, 6 and 9 output buffers offer ultra-low additive jitter. Proven automotive reliability reduces risk and speeds time to market.

### Features

- Automotive AEC-Q100 qualified
- Low power consumption: 32 mA supply current)
- Automotive applications grade 1 compliant
- Leaded and wettable flank packages for reliable soldering

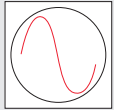
### Key Applications

- ADAS vision system
- Infotainment
- Dashboard
- Telematics
- Gateway



CPN	AEC-Q100	Fanout	Input Type	Output Type	Supply Voltage (V)	Output Frequency (Max) (GHz)	Output to Output Skew (Max) (ps)	Output Enable	Packages	Media
PLA133-47SAVAO	Grade 1: -40 to 125 C	1:4	LVLVCMOS	LVLVCMOS	1.8/2.5/3.3	0.15	250	No	8/SOIC	Bulk tube
PLA133-47SA-RVAO										Tape and Reel
PLA133-67OAVAO		1:6						Yes	16/TSSOP	Bulk tube
PLA133-67OA-RVAO										Tape and Reel
PLA133-97QAVAO		1:9						Yes	16/VQFN Wettable Flank	Bulk tube
PLA133-97QA-RVAO										Tape and Reel

## Timing and Clocks Product Lines

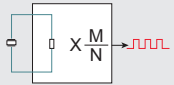
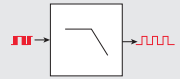


### Oscillators and Crystals

MEMS | Crystal | OCXO | EMXO  
TCXO | MCXO | VCXO | VCSO

### Jitter Attenuation

Jitter filtering | Clock translation  
Any in/any out | Internal EEPROM  
Advanced PLL

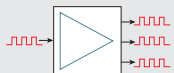
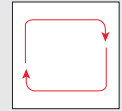


### Clock Generation

Low jitter | Low power  
Any in/any out | Clock tree on a chip  
Integrated MEMS/Xtal

### Synchronization

Synchronous Ethernet | IEEE1588  
Servo algorithm OTN/GPS/PLLS  
Firmware and software support

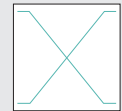


### Clock Buffers

Low additive jitter | Any in/any out  
Fan Out Buffer | Zero-delay buffers  
PCIe Buffers

### Clock and Data Distribution

Dividers | Multiplexers | Logic Translators  
Cross Point | 555 Timers | Backplane &  
Cable | Flip Flop/Logic Gates | Delay



### Real Time Clock and Calendar

I<sup>2</sup>C | SPI | Battery backup | Unique ID  
MAC address | Digital trimming

### FTS Atomic Clocks

CS beam tube | Hydrogen maser  
Chip Scale Atomic Clock (CSAC)  
Rb oscillators

