



New Product Announcement

PT7C4563BQ
PT7C4363BQ

Automotive-Compliant Real-Time Clocks for System Time-Keeping

The PT7C4563BQ and PT7C4363BQ are automotive-compliant real-time clocks that are qualified to AEC-Q100 Grade 1, are PPAP capable, and are manufactured in IATF 16949:2016 certified facilities.

Both devices provide accurate time, calendar, and alarms for automotive systems. In addition, the PT7C4363BQ has a programmable timer to create flexible system wake-up schedules.

Standard features include automatic adjustments for leap years and for months with fewer than 31 days.

Both devices minimize power consumption with very low standby current (400nA), enabling the systems to meet current requirements.

The PT7C4563BQ and PT7C4363BQ are available in SO-8 package.



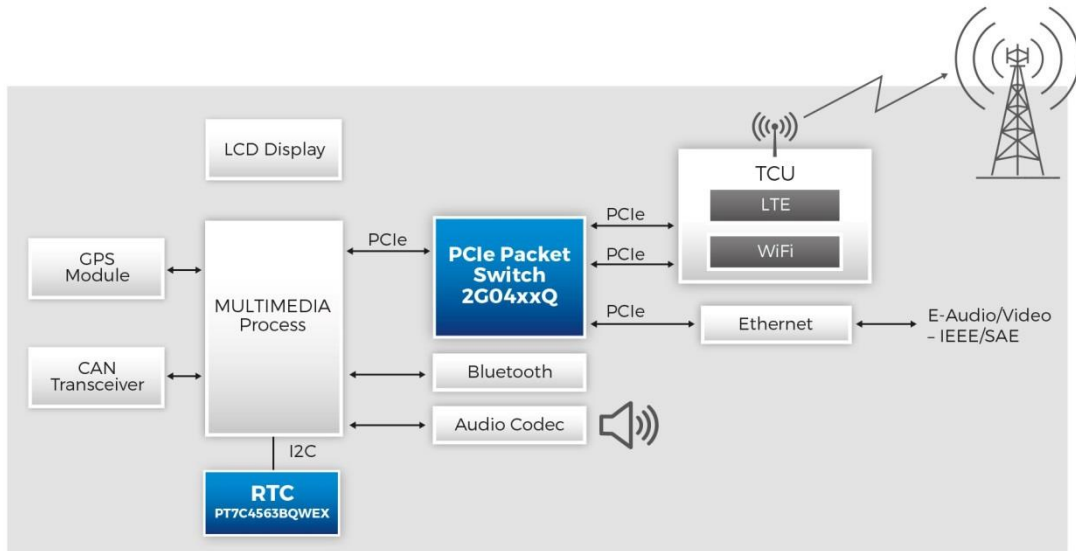
The Diodes Advantage

- **Qualified to AEC-Q100 Grade 1**
Automotive-compliant with reliable performance across -40°C to +125°C
- **Provides Calendar and Time with Automatic End-of-Month Adjustments**
Maintains accurate date and time even for months <31 days
- **Low Power (400nA) in Standby**
Minimizes battery drain and helps systems meet quiescent current requirements
- **Programmable Alarm and Timer**
Flexible wake-up schedule
- **I²C Interface**
Simple interface to microcontroller

Applications

- Infotainment
- T-Box
- Dashboard Display

Application Diagram



Product Portfolio

MPN	Time Display	Operating Temp	Interface	Alarm	Timer	Package
PT7C4563BQ	24Hr	-40°C ~ +125°C	I ² C	Yes	No	SO-8
PT7C4363BQ	24Hr	-40°C ~ +125°C	I ² C	Yes	Yes	SO-8

Ordering Information

Part Number	Package Code	Package	Tape Width	Quantity per Reel
PT7C4563BQ1WEX	W	SO-8	12mm	2500
PT7C4363BQ1WEX	W	SO-8	12mm	2500

To find out more information: <https://www.diodes.com/products/connectivity-and-timing/clock-ics/real-time-clock/>