



Product Alert

Date: May 15, 1996
Product: OPTi F82C206Q E Integrated Peripheral Controller
Title: Real-Time Clock Data Corruption

Summary

The OPTi F82C206Q E Integrated Peripheral Controller with country origin Korea made by Samsung may exhibit corruption of date and time data when continuously accessing the date and time register of Real-Time Clock (RTC). The RTC is maintained by the external 32.8KHz oscillator circuit to provide time base.

This problem is due to the 32.8KHz clock coupling the high frequency noise into the 206. Please see the attached application note from Samsung regarding to this RTC problem.

The high frequency noise can be avoided by adding a capacitor 27pf on the 32.8KHz clock signal OSCI pin (pin 75) of 206 to ground as close as 206 device. This fix is shown in the attached schematic.

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