

Resolving Hardware Conflicts On Your Own - Toshiba P30-S6362ST User Manual

P30-s6362st user's guide

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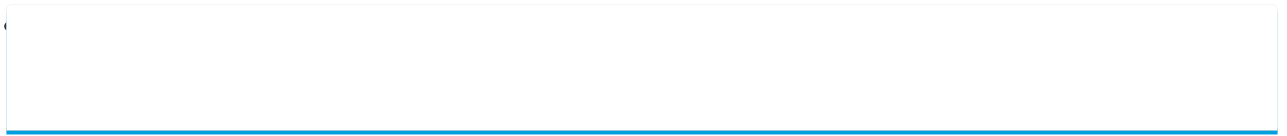
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If Something Goes Wrong

Resolving a hardware conflict

The recommended procedure for getting multiple devices to

work together is to add and set up one device at a time.

After

you add each device, test it to make sure it and all previously connected devices work.

The device most recently connected to the system is the one most likely to be causing a hardware conflict.

Resolving hardware conflicts on your own

Computer components need resources to accomplish a task.

A device, such as a disk drive or a modem, needs a channel to the computer's Central Processing Unit (CPU). It also needs a direct channel to the computer's memory to store information as it works. These channels of communication are commonly referred to as system resources.

Interrupt Request Channel

The channel to the CPU is called an Interrupt Request (IRQ)

because it interrupts what the processor is doing and requests some of the processor's time.

Direct Memory Access

Similarly, the data required by the device is stored in a specific place or address in memory called the Direct

Memory Access (DMA). The DMA provides a dedicated channel for adapter cards to bypass the microprocessor and

access memory directly. If two or more devices use the same

DMA, the data required by one device overwrites the data

required by the other, causing a hardware conflict.

Plug and Play

With Plug and Play and the Windows

avoiding hardware conflicts is easy. Plug and Play is a computer standard that helps the system BIOS (basic input/output

system) and the operating system to automatically

assign resources to Plug and Play-compliant devices. In theory, if every device connected to the computer is Plug and

and
XP operating system, [Manual ib con](#)

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