

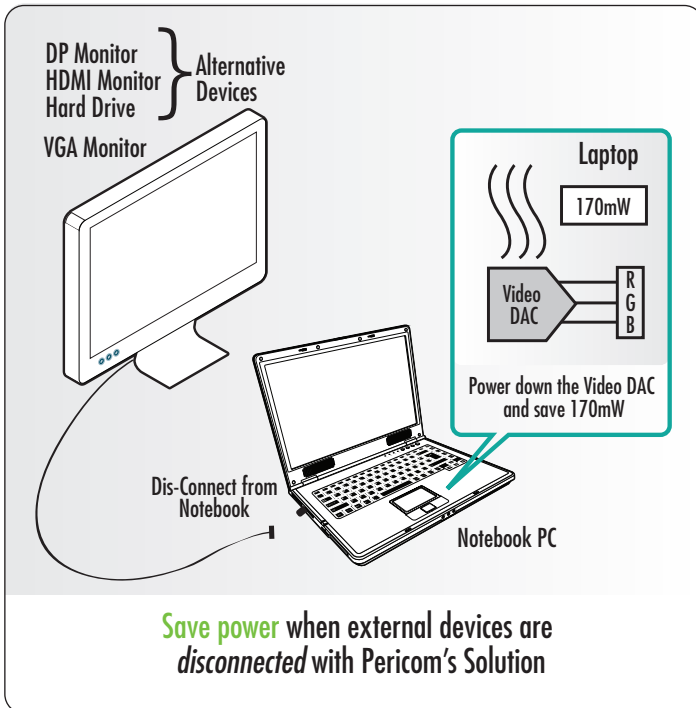
PI3VST01

VGA Monitor Detector

Pericom's PI3VST01 detects the presence of a monitor plugged into a VGA connector and provides a HPD (hot-plug detect) output. By shutting down the RGB DAC when a monitor is not connected, the system can save 170 mW. PI3VST01 dissipates only 0.3 mW.

The monitor detection hardware will not affect normal operation of the VGA monitor. To ensure balance between R, G, and B paths, 30 Ω series resistors should be added to the R and G paths.

Product Application



Features

- Hot Plug Detect Signal Generator for VGA connectors
- Generates hot plug output signal telling system when monitor is present or not
- Power Supply, 3.3V and 5.0V
- ESD tolerance on pin 7 is up to ± 4 kV contact per IEC61000-4-2 specification
- -3dB BW of 1.7GHz (typ)
- Low and Flat ON-STATE resistance
($R_{on} = 4.75 \Omega$, $R_{on(Flat)} = 0.5 \Omega$, typ)
- Low input/output capacitance ($C_{on} = 4.5$ pF, typ)
- Packaging (Pb-free and Green):
 - 8-contact MSOP (U)
 - 10-contact TDFN (ZE)

Block Diagram

