

PI3HDX1204-B

HDMI 2.0 ReDriver and DisplayPort Level Shifter with Equalization, De-emphasis & Pre-shoot

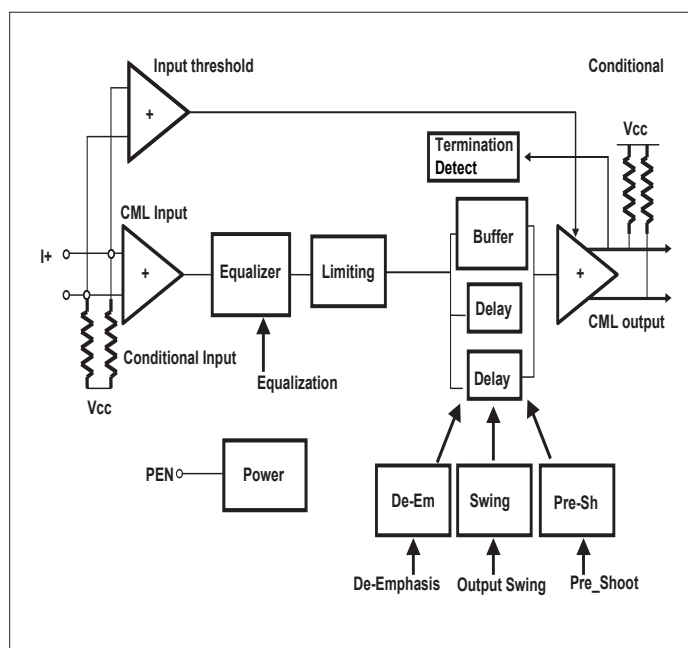
Pericom Semiconductor's PI3HDX1204-B is suitable for 6.0Gbps HDMI2.0 ReDriver with programmable equalization, output swing, pre-shoot, and de-emphasis. It can also be used for the Displayport 1.2 Level Shifter application. This configuration can be used in conjunction with pin strapping or I²C programming to optimize signal performance over a variety of physical mediums.

PI3HDX1204-B supports four differential data channels and extends the signals across other sink side application devices.

Applications

- Notebook, Desktops, Mobile Computers
- TV, Set-top-Box and Projectors
- Embedded Display Systems

Block Diagram



Features

- Support HDMI2.0 TMDS channels with minimal add-in jitters
- Design for dual-mode DisplayPort Level Shifter
- Independent each channel receiver Equalization, Output Swing, Pre-shoot and De-emphasis
- Built-in Channel Activity Detector with selectable input termination between 50Ω to V_{DD} and 200KΩ to V_{DD}
- Pin Strap and I²C selectable device programming mode
- Supply Voltage: 3.3V
- Industrial Temperature Range: -40°C to 85°C
- Packaging (Pb-free & Green): 42-contact TQFN (9mm x 3.5mm)

Typical Application Diagram

