

2:1 ActiveEye™ HDMI™ Switch with Automatic Power Down and Dual SEL Control for Source Applications

Features

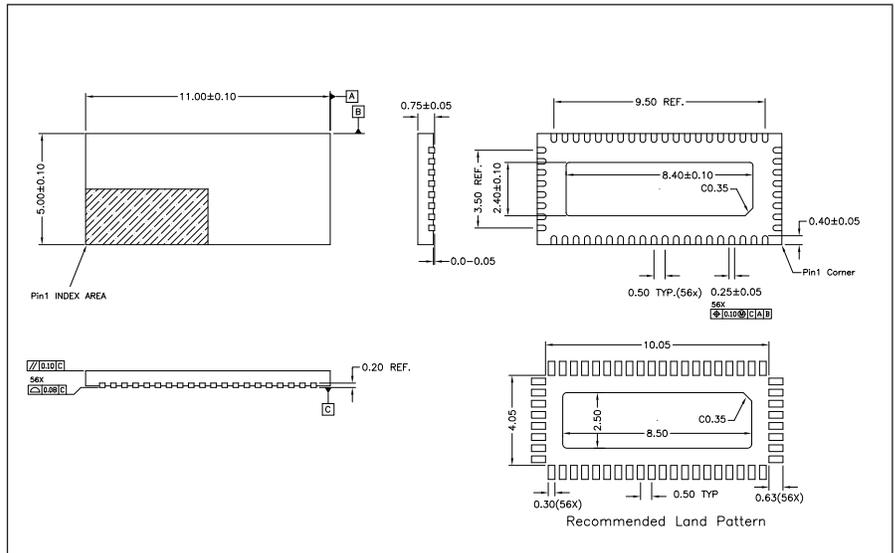
- 2 digital video inputs can be switched to a single output
- Each input can be AC coupled video or DC coupled, while the output will maintain its DC coupled, current-steering, TMDS compliance
- TMDS pixel clock support up to 250MHz max (up to 2.5Gbps per lane)
- Deep Color™ support up to 36bits max per link
- Integrated DDC switch to connect DDC path from HDMI™ input connectors to HDCP block in the HDMI Receiver.
- HDCP reset circuitry for quick communication when switching from one port to another
- Automatic Termination turn-off circuitry when port is deselected
- Clock Detection: Will disable output TMDS channels when no TMDS pixel clock is present
- Flexible termination;
- When TMDS channel is off, 50-Ohm termination pull to V_{DD} is off
- Integrated ESD on all TMDS output pins
 - 8kV Human Body Model per JESD22
 - $\pm 8kV$ contact per IEC61000-4-2
- Packaging (Pb-free and Green)
 - 56 contact TQFN (ZFE)

Description

Fully compatible HDMI™ signal support with backward compatibility to the DVI 1.0 standard, Pericom's new "ActiveEye™" switch technology is all you need to connect multiple, unknown sources, to a single display. Without any affect on HDCP, these switches can be used almost anywhere. In addition to supporting DC coupled HDMI and DVI inputs, Pericom's PI3HDMI221-A can also level shift an AC coupled HDMI to a DC coupled HDMI output.

Pericom's HDMI product family has been designed specifically to support color depths of up to 12bits per channel, as specified in the HDMI revision 1.3 standard. We have integrated the entire interface solution so the TV designer doesn't have to think about it. This includes, integrated DDC switching.

Packaging Mechanical: 56-Pin TQFN (ZF)



Ordering Information

| Ordering Code | Package Code | Package Type |
|-----------------|--------------|------------------------------|
| PI3HDMI221-AZFE | ZFE | 56-pin, Pb-free & Green TQFN |

1. Thermal characteristics can be found on the company web site at www.pericom.com/packaging/
2. E = Pb-free and Green
3. Adding an X Suffix = Tape/Reel