

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









ActiveEye[™] 3:1 HDMI[™] Switch with I²C Control & ARC

Features

- IC control 3:1 HDMI active switch Mux with DC coupled or AC coupled Dual mode DisplayPort signals
- HDMI 1.4 compliant with fast video switch among each ports
- 2.5Gbps data rate for TMDS clock up to 250MHz
- Support up to 36-bits per pixel Deep Color
- TMDS compliance input can be AC coupled video or DC coupled. Output will maintain its DC coupled, current- steering
- Programmable equalizer, Pre-emphasis and amplitude settings to achieve optimized HDMI signal integrity
- Integrated selectable DDC active/ passive switch to connect DDC path
- Idle clock detection function for output squelch
- Programmable TMDS termination control
- TMDS input pull-up 50 Ohm termination, pull-down >120K Ohm resistor when switch is deselected
- Double terminated TMDS output support
- Integrated ESD protection on I/O pins to connector, 8KV contact per IEC61000-4-2, level 3
- 64-LQFP (FB), Pb-free and Green

Description

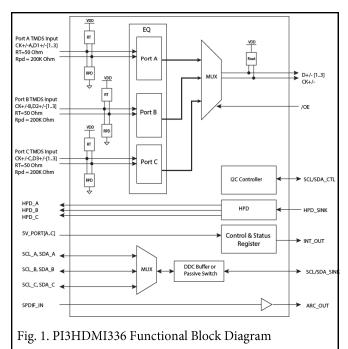
PI3HDMI336 is an IC configurable active switch using Pericom's new ActiveEye technology to achieve optimized signal integrity for cable or on board transmission. It is HDMI 1.4 / DVI 1.0 standard compatible device and also use for the DisplayPort switching application.

It support both Pin stripping and I²C programmable that MDS input termination settings helps to avoid the compatibility issue caused by non standard HDMI source. This feature minimizes the reflection caused by improper impedance matching and reduces the signal jitter.

PI3HDMI336 provide the optimized trace routing with low BOM cost along with the integrated DDC channel Mux, Hot Plug Detection, cable detection and HDMI 1.4 ARC transmitter.

Applications

- HDMI Switch Box
- STB (Set-top Box)
- Digital TV
- LCD monitors



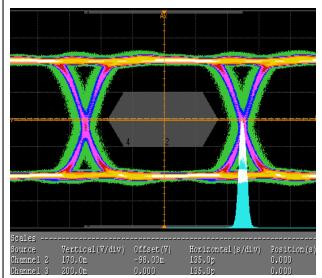


Fig. 2. Eye Diagram at 1920x1080p 8 bit, 16dB EQ, 30m cable



Ordering Information

Ordering Code	Package Code	Package Description
PI3HDMI336FBE	FB	64-pin LQFP

Notes:

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

Related Products

Part Number	Product Description	
PI3EQXDP1201	ActiveEye™ DisplayPort 1.2 ReDriver with the built-in AUX listener	
PI3VDP1430	ActiveEye™ Dual Mode DisplayPort to HDMI Level Shifter and Re-driver	
PI3HDMI412AD	ActiveEye™ 1:2 Active HDMI1.4 compliant Splitter/Re-driver	
PI3HDMI511	ActiveEye™ 3.4Gbps HDMI1.4 ReDriver for Source-side application	
PI3HDMI611	ActiveEye™ 3.4Gbps HDMI1.4 ReDriver for Sink-side application	
PI3HDMI521	ActiveEye TM 2:1 3.4Gbps HDMI1.4 Switch/Re-driver with built-in ARC and Fast Switching support for Source-side Application	
PI3HDMI621	ActiveEye TM 2:1 3.4Gbps HDMI1.4 Switch/Re-driver with built-in ARC and Fast Switching support for Sink Application	
PI3VDP3212	2-Lane DisplayPort1.2 Compliant Switch	
PI3VDP12412	4-Lane DisplayPort1.2 Compliant Switch	

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH PERICOM PRODUCT. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN PERICOM'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Pericom may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". Pericom reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specification. Current characterized errata are available on request.

Contact your local Pericom Sales office or your distributor to obtain the latest specifications and before placing your product order.

Copyright 2012 Pericom Corporation. All rights reserved. Pericom and the Pericom logo are trademarks of Pericom Corporation in the U.S. and other countries.