

2-Lane DisplayPort™ Rev 1.2 Compliant Switch

Features

- → 2-lane, 1:2 mux/demux that will support RBR, HBR1, or HBR2
- → 1-channel 1:2 mux/demux for DP_HPD signal
- → 1-differential channel 1:2 mux/demux for DP_Aux signal with support up to 720Mbps
- → Insertion Loss for high speed channels @ 2.7 GHz: -1.7dB
- → -3dB Bandwidth for high speed channels: 4.7GHz
- → Return loss for high speed channels @ 2.7GHz: -16dB
- → Low Bit-to-Bit Skew, 7ps max (between '+' and '-' bits)
- → Low Crosstalk for high speed channels: -25dB@5.4 Gbps
- → Low Off Isolation for high speed channels: -25dB@5.4 Gbps
- → V_{DD} Operating Range: 3.3V +/-10%
- → ESD Tolerance: 2kV HBM
- → Low channel-to-channel skew, 35ps max
- → Packaging (Pb-free & Green):
 - 32 TQFN (ZL)

Description

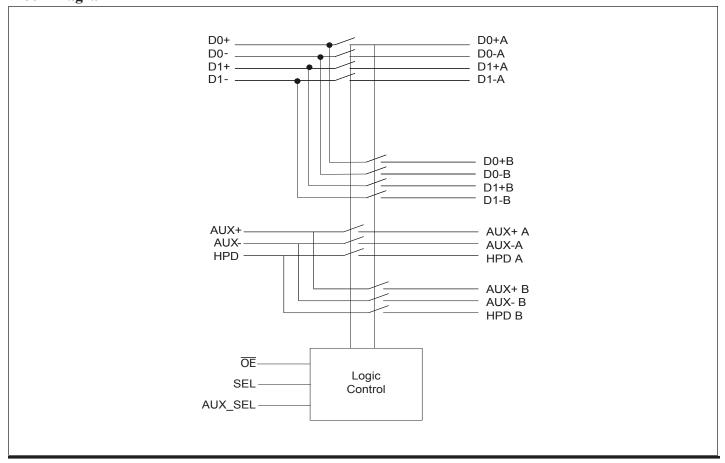
Pericom Semiconductor's PI3VDP3212 mux/demux is targeted for next generation digital video signals. This device can be used to connect a DisplayPort™ Source to two Independent DisplayPort Sinks or to connect two DisplayPort sources to a single DP display.

The newly released DisplayPort spec requires a data rate of 5.4 Gbps. Pericom's solution has been specifically designed around this standard and will support such signals.

Application

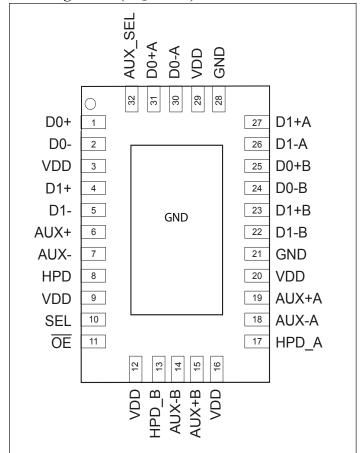
Routing of DisplayPort signals with low signal attenuation between source and sink.

Block Diagram





Pin Assignment (TQFN-32)



Truth Table

ŌĒ	SEL	AUX_ SEL	Function
Low	Low	Low	Port A active for all channels
Low	Low	High	Port A for HS, port B for HPD/AUX
Low	High	Low	Port B for HS, port A for HPD/AUX
Low	High	High	Port B active for all channels
High	x	x	All I/O's are hi-z and IC is power down



Pin Description

pin# pin Name Signal Type Description		cription			
D0- I/O	pin#	pin Name	Signal Type	Description	
VDD	1	D0+	I/O	positive differential signal 0 for COM port	
D1+	2	D0-	I/O	negative differential signal 0 for COM port	
D1-	3	VDD	Power	3.3V +/-10% power supply	
6 AUX+ I/O positive differential signal for AUX COM port 7 AUX- I/O negative differential signal for AUX COM port 8 HPD I/O HPD for COM port 9 VDD Power 3.3V +/-10% power supply 10 SEL I If HIGH, then path B is selected for high speed channels only If LOW, then path A is selected for high speed channels only If LOW, then path B is selected for high speed channels only If LOW, then path B is selected for high speed channels only If LOW, then path A is selected for high speed channels only If LOW, then path B is selected for high speed channels only If LOW, are hi-z 12 VDD Power 3.3V +/-10% power supply 13 HPD_B I/O HPD for port B 14 AUX-B I/O negative differential signal for AUX, port B 15 AUX+B I/O positive differential signal for AUX, port B 16 VDD Power 3.3V +/-10% power supply 17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 DI-B I/O negative differential signal 1 for port B 23 DI+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 1 for port B 25 D0+B I/O positive differential signal 1 for port B 26 DI-A I/O negative differential signal 1 for port B 27 DI+B I/O positive differential signal 1 for port B 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 1 for port A 31 D0+A I/O positive differential signal 0 for port A 32 Switches only the AUX and HPD channels from port A vs. port B 34 Switches only the AUX and HPD channels from port A vs. port B	4	D1+	I/O	positive differential signal 1 for COM port	
AUX-	5	D1-	I/O	negative differential signal 1 for COM port	
B	6	AUX+	I/O	positive differential signal for AUX COM port	
9 VDD Power 3.3V +/-10% power supply 8 switch logic control. 10 SEL I I If HIGH, then path B is selected for high speed channels only If LOW, then path A is selected for high speed channels only If LOW, then path B is selected for high speed channels only If LOW, then path A is selected for high speed channels only Output enable. if OE is low, IC is enabled. If OE is high, then IC is power down and all I/Os are hi-z 12 VDD Power 3.3V +/-10% power supply 13 HPD_B I/O HPD for port B 14 AUX-B I/O negative differential signal for AUX, port B 15 AUX+B I/O positive differential signal for AUX, port B 16 VDD Power 3.3V +/-10% power supply 17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 10 AUX-B I/O negative differential signal for AUX, port A 11 GRD Ground Ground 12 D1-B I/O negative differential signal 1 for port B 13 D1+B I/O positive differential signal 1 for port B 14 D0-B I/O positive differential signal 0 for port B 15 D1-A I/O positive differential signal 1 for port B 16 D1-A I/O positive differential signal 1 for port A 17 D1-A I/O positive differential signal 1 for port A 18 D0-A I/O negative differential signal 1 for port B 19 D0-A I/O negative differential signal 1 for port A 20 D1-B I/O positive differential signal 1 for port B 21 D1-A I/O positive differential signal 1 for port A 22 D1-B I/O positive differential signal 1 for port A 23 D1-B I/O positive differential signal 1 for port A 24 D0-B I/O positive differential signal 1 for port A 25 D0-B I/O positive differential signal 1 for port A 26 D1-A I/O positive differential signal 0 for port A 27 D1-A I/O positive differential signal 0 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A	7	AUX-	I/O	negative differential signal for AUX COM port	
SEL	8	HPD	I/O	HPD for COM port	
SEL	9	VDD	Power	3.3V +/-10% power supply	
If LOW, then path A is selected for high speed channels only 11				switch logic control.	
11 OE I Output enable. if OE is low, IC is enabled. If OE is high, then IC is power down and all I/Os are hi-z 12 VDD Power 3.3V +/-10% power supply 13 HPD_B I/O HPD for port B 14 AUX-B I/O negative differential signal for AUX, port B 15 AUX+B I/O positive differential signal for AUX, port B 16 VDD Power 3.3V +/-10% power supply 17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 switches only the AUX and HPD channels from port A vs. port B	10	SEL	I	If HIGH, then path B is selected for high speed channels only	
down and all I/Os are hi-z VDD				If LOW, then path A is selected for high speed channels only	
HPD_B I/O HPD for port B AUX-B I/O negative differential signal for AUX, port B If AUX+B I/O positive differential signal for AUX, port B AUX+B I/O positive differential signal for AUX, port B AUX+B I/O HPD for port A BYOD POWER 3.3V +/-10% power supply HPD_A I/O HPD for port A BYOD POWER AUX-A I/O negative differential signal for AUX, port A BYOD POWER 3.3V +/-10% power supply AUX+A I/O positive differential signal for AUX, port A BYOD Ground Ground GROUND Ground Ground D1-B I/O negative differential signal 1 for port B D1+B I/O positive differential signal 1 for port B D0-B I/O negative differential signal 0 for port B D0-B I/O positive differential signal 1 for port A D1-A I/O positive differential signal 1 for port A BYOD Ground Ground GROUND Ground Ground D1-A I/O negative differential signal 1 for port A BYOD POWER 3.3V +/-10% power supply AUX_SEL I/O positive differential signal 0 for port A SWICHEST SUPPLY AVEX. SEL I/O HPD FOR A SWITCHEST SUPPLY AVEX. SEL I/O HPD FOR B AUX_SEL I/O HPD FOR B AUX_	11	ŌĒ	I		
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15 AUX+B I/O positive differential signal for AUX, port B 16 VDD Power 3.3V +/-10% power supply 17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 switches only the AUX and HPD channels from port A vs. port B	13	HPD_B	I/O	HPD for port B	
16 VDD Power 3.3V +/-10% power supply 17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 switches only the AUX and HPD channels from port A vs. port B 33 AUX_SEL I If High, path B is selected	14	AUX-B	I/O	negative differential signal for AUX, port B	
17 HPD_A I/O HPD for port A 18 AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 WX_SEL I If High, path B is selected	15	AUX+B	I/O	positive differential signal for AUX, port B	
AUX-A I/O negative differential signal for AUX, port A 19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 switches only the AUX and HPD channels from port A vs. port B 33 AUX_SEL I If High, path B is selected	16	VDD	Power	3.3V +/-10% power supply	
19 AUX+A I/O positive differential signal for AUX, port A 20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 Switches only the AUX and HPD channels from port A vs. port B 33 If High, path B is selected	17	HPD_A	I/O	HPD for port A	
20 VDD Power 3.3V +/-10% power supply 21 GND Ground Ground 22 D1-B I/O negative differential signal 1 for port B 23 D1+B I/O positive differential signal 1 for port B 24 D0-B I/O negative differential signal 0 for port B 25 D0+B I/O positive differential signal 0 for port B 26 D1-A I/O negative differential signal 1 for port A 27 D1+A I/O positive differential signal 1 for port A 28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 switches only the AUX and HPD channels from port A vs. port B 33 AUX_SEL I If High, path B is selected	18	AUX-A	I/O	negative differential signal for AUX, port A	
GND Ground Ground D1-B I/O negative differential signal 1 for port B D1+B I/O positive differential signal 1 for port B I/O negative differential signal 0 for port B D0-B I/O negative differential signal 0 for port B D0+B I/O positive differential signal 0 for port B D1-A I/O negative differential signal 1 for port A D1+A I/O positive differential signal 1 for port A GND Ground Ground Ground VDD Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A I/O positive differential signal 0 for port A MODE TO STATE OF THE STA	19	AUX+A	I/O	positive differential signal for AUX, port A	
D1-B I/O negative differential signal 1 for port B D1+B I/O positive differential signal 1 for port B I/O negative differential signal 0 for port B I/O negative differential signal 0 for port B D0-B I/O positive differential signal 0 for port B I/O negative differential signal 1 for port A D1-A I/O negative differential signal 1 for port A D1+A I/O positive differential signal 1 for port A ROND Ground Ground VDD Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A I/O positive differential signal 0 for port A I/O segative differential signal 0 for port A MUX_SEL I I High, path B is selected	20	VDD	Power	3.3V +/-10% power supply	
D1+B I/O positive differential signal 1 for port B 1/O negative differential signal 0 for port B 1/O positive differential signal 0 for port B 1/O positive differential signal 0 for port B 1/O negative differential signal 1 for port A 1/O positive differential signal 1 for port A 1/O power 3.3V +/-10% power supply 1/O negative differential signal 0 for port A 1/O positive differential signal 0 for port A	21	GND	Ground	Ground	
D0-B I/O negative differential signal 0 for port B D0-B I/O positive differential signal 0 for port B D1-A I/O negative differential signal 1 for port A D1+A I/O positive differential signal 1 for port A GND Ground Ground VDD Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A I/O positive differential signal 0 for port A I/O negative differential signal 0 for port A AUX_SEL I I High, path B is selected	22	D1-B	I/O	negative differential signal 1 for port B	
D0+B I/O positive differential signal 0 for port B D1-A I/O negative differential signal 1 for port A D1+A I/O positive differential signal 1 for port A BND Ground Ground VDD Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A I/O positive differential signal 0 for port A AUX_SEL I I High, path B is selected	23	D1+B	I/O	positive differential signal 1 for port B	
D1-A I/O negative differential signal 1 for port A D1+A I/O positive differential signal 1 for port A GND Ground Ground VDD Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A I/O positive differential signal 0 for port A AUX_SEL I I If High, path B is selected	24	D0-B	I/O	negative differential signal 0 for port B	
D1+A I/O positive differential signal 1 for port A ROND Ground Ground Power 3.3V +/-10% power supply D0-A I/O negative differential signal 0 for port A D0+A I/O positive differential signal 0 for port A switches only the AUX and HPD channels from port A vs. port B AUX_SEL I If High, path B is selected	25	D0+B	I/O	positive differential signal 0 for port B	
28 GND Ground Ground 29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A 32 AUX_SEL I If High, path B is selected	26	D1-A	I/O	negative differential signal 1 for port A	
29 VDD Power 3.3V +/-10% power supply 30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A switches only the AUX and HPD channels from port A vs. port B If High, path B is selected	27	D1+A	I/O	positive differential signal 1 for port A	
30 D0-A I/O negative differential signal 0 for port A 31 D0+A I/O positive differential signal 0 for port A switches only the AUX and HPD channels from port A vs. port B AUX_SEL I If High, path B is selected	28	GND	Ground	Ground	
31 D0+A I/O positive differential signal 0 for port A switches only the AUX and HPD channels from port A vs. port B If High, path B is selected	29	VDD	Power	3.3V +/-10% power supply	
switches only the AUX and HPD channels from port A vs. port B 32 AUX_SEL I If High, path B is selected	30	D0-A	I/O	negative differential signal 0 for port A	
32 AUX_SEL I If High, path B is selected	31	D0+A	I/O	positive differential signal 0 for port A	
				switches only the AUX and HPD channels from port A vs. port B	
If LOW, path A is selected	32	AUX_SEL	I	If High, path B is selected	
				If LOW, path A is selected	



Maximum Ratings

(Above which useful life may be impaired. For user guidelines, not tested.)

Storage Temperature -65°C to $+150^{\circ}\text{C}$ Supply Voltage to Ground Potential -0.5V to $+4.2\text{V}$ DC Input Voltage -0.5V to V_{DD}
DC Output Current120mA
Power Dissipation

Note: Stresses greater than those listed under MAXI-MUM RATINGS may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

DC Electrical Characteristics for Switching over Operating Range (TA = -40° C to $+85^{\circ}$ C, VDD = $3.3V \pm 10\%$)

Parameter	Description	Test Conditions ⁽¹⁾	Min	Typ ⁽¹⁾	Max	Units	
V _{IH}	Input HIGH Voltage	Guaranteed HIGH level	1.5				
V_{IL}	Input LOW Voltage	Guaranteed LOW level	0.75		0.75	V	
v_{IK}	Clamp Diode Voltage, Dx	$V_{\mathrm{DD}} = \mathrm{Max.}, \mathrm{I_{\mathrm{IN}}} = -18 \mathrm{mA}$		-1.6	-1.8		
IIH	Input HIGH Current	$V_{DD} = Max., V_{IN} = V_{DD}$			±5		
I _{IL}	Input LOW Current	$V_{DD} = Max., V_{IN} = GND$			±5	μA	
I _{OFF_SB}	I/O leakage when part is off for side band signals only (DDC, AUX, HPD)	$V_{DD} = 0V$, $V_{INPUT} = 0V$ to 3.6V			20	'	
R _{ON_HS}	On resistance between input to output for high speed signals	V_{DD} = 3.3V, Vinput = 0V to 2V, I_{INPUT} = 20mA		10		Ohm	
R _{ON_AUX}	On resistance between input to output for side-band signals (AUX)	V_{DD} = 3.3V, Vinput = 0 to 3.3V, I_{INPUT} = 20mA		7		Ohm	
Aux_ss	Signal Swing Tolerance in Aux path	$V_{\mathrm{DD}} = 3.0 \mathrm{V}$	-0.5		3.6	V	
HPD_I	Input voltage tolerance on HPD path				5.5	V	
HPD_O	Output voltage on HPD path	HPD input from 0V to 5.25V			3.6	V	

Power Supply Characteristics (TA = -40°C to +85°C)

Parameter	Description	Test Conditions ⁽¹⁾	Min	Typ ⁽¹⁾	Max	Units
I_{CC}	Quiescent Power Supply Current	V_{DD} = 3.3V., V_{IN} = GND or V_{DD}		320	500	uA



Dynamic Electrical Characteristics over Operating Range (TA = -40° to +85°C, VDD = $3.3V \pm 10\%$)

Parameter	Description	Test Conditions		Тур.	Max	Units
V		See Fig. 1 for Measurement	f= 2.7 GHz	-25dB		
X_{TALK}	Crosstalk on High Speed Channels	Setup	f = 1.35 GHz	-32dB		
			f= 2.7 GHz	-22dB		dB
O _{IRR}	OFF Isolation on High Speed Channels	See Fig. 2 for Measurement Setup,	f = 1.35 GHz	-30dB		
I _{LOSS}	Differential Insertion Loss on High Speed Channels	@5.4Gbps (see figure 3)		-1.7		dB
R _{loss}	Differential Return Loss on high speed channels	@ 2.7GHz		-16		dB
BW_Dx±	Bandwidth -3dB for Main high speed path (Dx±)	See figure 3		4.7		GHz
BW_AUX/ HPD	-3dB BW for AUX and HPD signals	See figure 3		1.5		GHz
Tsw a-b	time it takes to switch from port A to port B				1	us
Tsw b-a	time it takes to switch from port B to port A				1	us
Tstartup	Vdd valid to channel enable				10	us
Twakeup	Enabling output by changing \overline{OE} from low to High				10	us

^{1.} For Max. or Min. conditions, use appropriate value specified under Electrical Characteristics for the applicable device type.

Switching Characteristics ($T_A = -40^{\circ} \text{ to } +85^{\circ}\text{C}$, $V_{DD} = 3.3V \pm 10\%$)

Parameter	Description		Тур.	Max.	Units
T _{pd}	Propagation delay (input pin to output pin)		80		ps
t _{b-b}	Bit-to-bit skew within the same differential pair		5		ps
t _{ch-ch}	Channel-to-channel skew			50	ps

^{2.} Typical values are at V_{DD} = 3.3V, T_A = 25°C ambient and maximum loading.



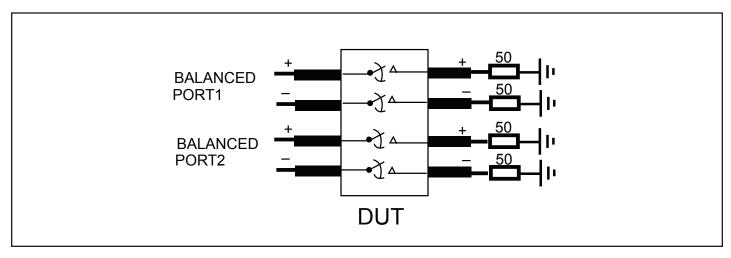


Fig 1. Crosstalk Setup

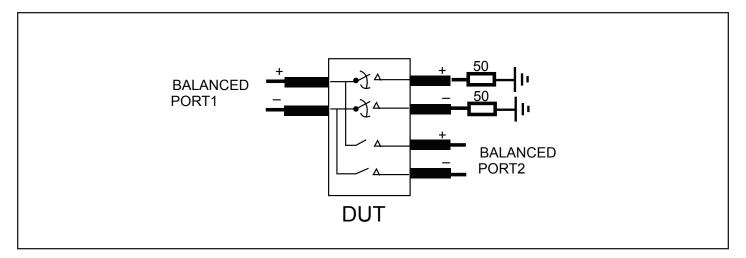


Fig 2. Off-isolation setup

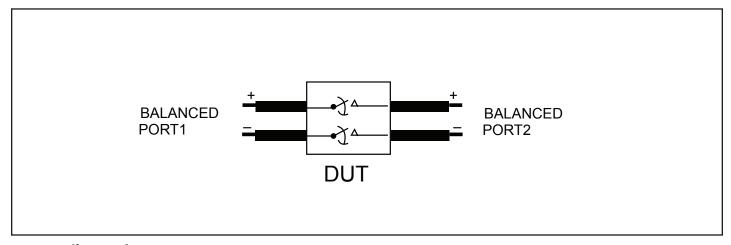


Fig 3. Differential Insertion Loss set up



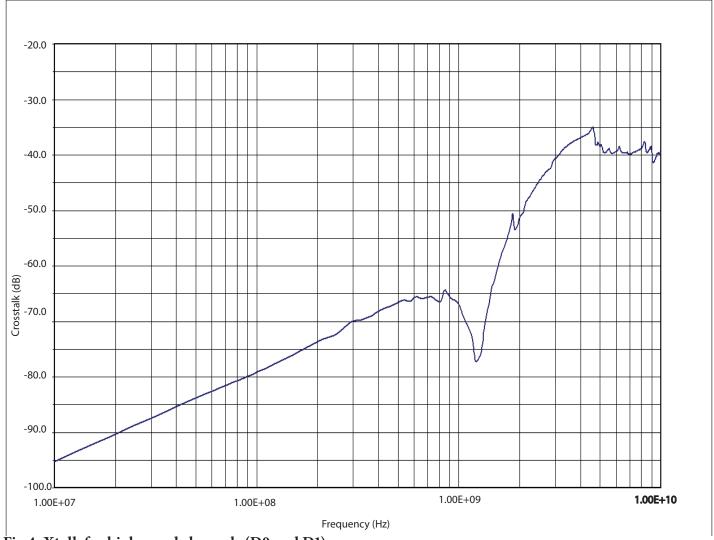


Fig 4. Xtalk for high speed channels (D0 and D1)



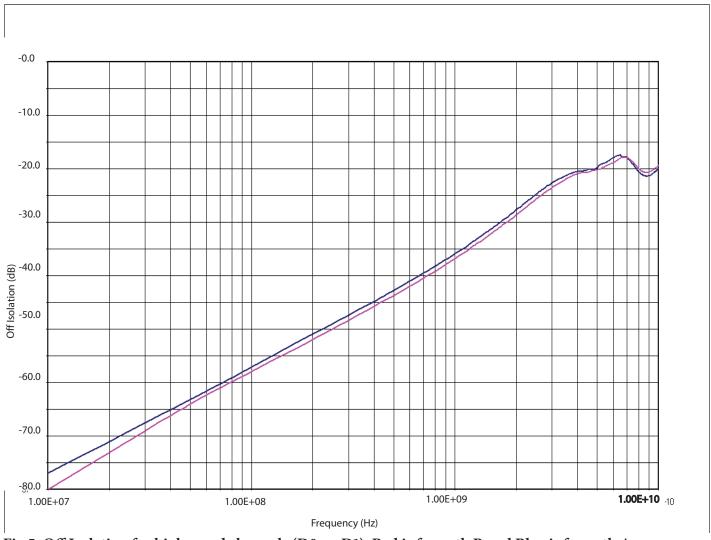


Fig 5. Off Isolation for high speed channels (D0 an D1). Red is for path B and Blue is for path A



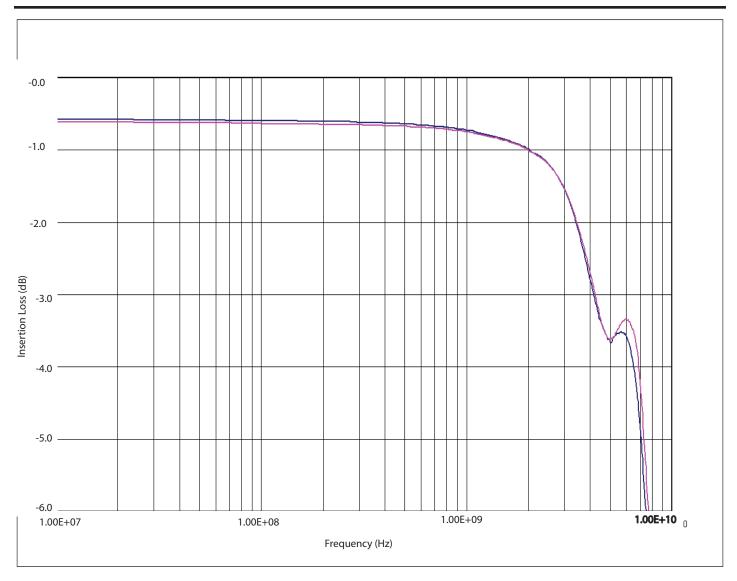
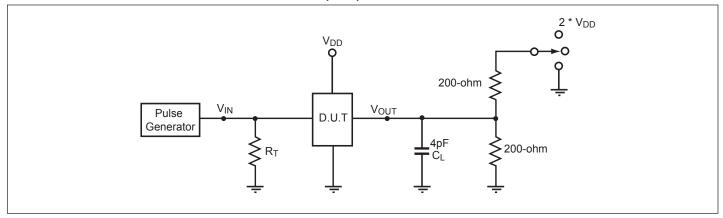


Fig 6. Insertion Loss for high speed channels, D0 and D1. Red is for path B and Blue is for path A



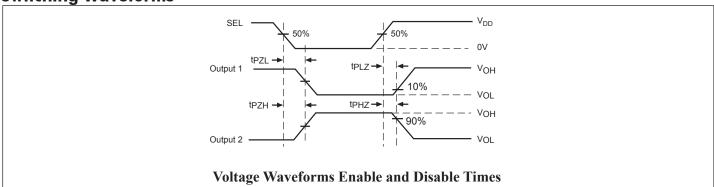
Test Circuit for Electrical Characteristics(1-5)



Notes:

- 1. C_L = Load capacitance: includes jig and probe capacitance.
- 2. R_T = Termination resistance: should be equal to Z_{OUT} of the Pulse Generator
- 3. Output 1 is for an output with internal conditions such that the output is low except when disabled by the output control.
- 4. Output 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- 5. All input impulses are supplied by generators having the following characteristics: $PRR \leq MHz, Z_O = 50\Omega, t_R \leq 2.5ns, t_F \leq 2.5ns$
- 6. The outputs are measured one at a time with one transition per measurement.

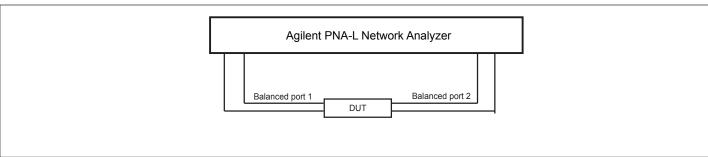
Switching Waveforms



Switch Positions

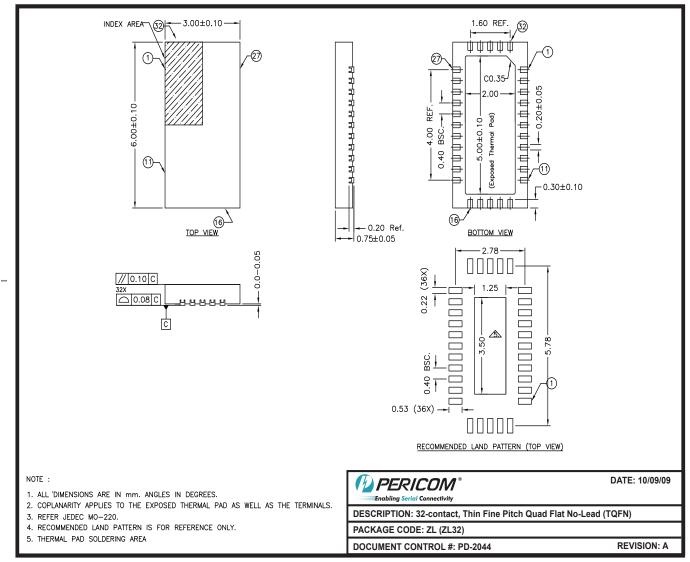
Test	Switch
t _{PLZ} , t _{PZL} (output on B-side)	2 * Vdd
t _{PHZ} , t _{PZH} (output on B-side)	GND
Prop Delay	Open

Test Circuit for Dynamic Electrical Characteristics





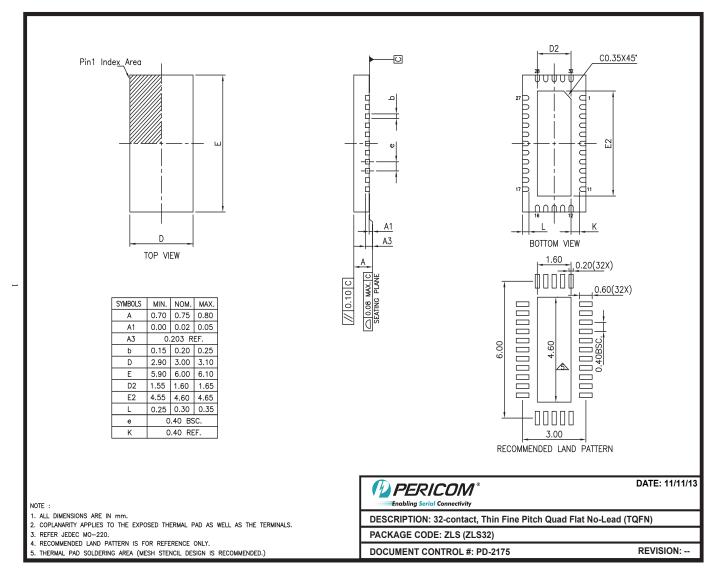
Packaging Mechanical: 32-Contact TQFN (ZL)



09-0125

13-0166 11 11/11/13





Note:

For latest package info, please check: http://www.pericom.com/products/packaging/mechanicals.php

Ordering Information

Ordering Code	Package Code	Package Description
PI3VDP3212ZLE	ZL	Pb-free & Green, 32-contact TQFN
PI3VDP3212ZLSE	ZLS	Pb-free & Green, 32-contact TQFN

Notes:

- Thermal characteristics can be found on the company web site at www.pericom.com/packaging/
- "E" denotes Pb-free and Green
- Adding an "X" at the end of the ordering code denotes tape and reel packaging

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Diodes Incorporated:

PI3VDP3212ZLE PI3VDP3212ZLEX