

SERVER & STORAGE SOLUTIONS

Pericom provides key serial connectivity, signal conditioning, switching and timing solutions for the growing server and storage market segments. For more information please visit:

<http://www.pericom.com/applications/server-and-storage/>

High Speed Signal Conditioning/Signal Switching Products:

Our cost-effective ReDriver™ (also known as Repeater) solutions extend trace and cable lengths across backplane, MB, and connectors. Our protocol-specific solutions shorten the design cycle and offer optimized performance:

- PCI Express (PCIe) 1.0, 2.0, 3.0
- SATA2, SATA3, SAS3* and SAS2
- USB3
- XAUI/RXAUI
- DDR3
- 10Gb Ethernet

Top-tier customers rely on our protocol-specific ReDrivers™ (Repeaters) in blade, rack, pedestal, micro-server, storage, cabled, and ASSP server products in volume production worldwide. Our high speed signal switching products offer slot expansion and multiplexing options for peripheral connectivity

* Contact Pericom for information

Low Jitter Timing Solutions:

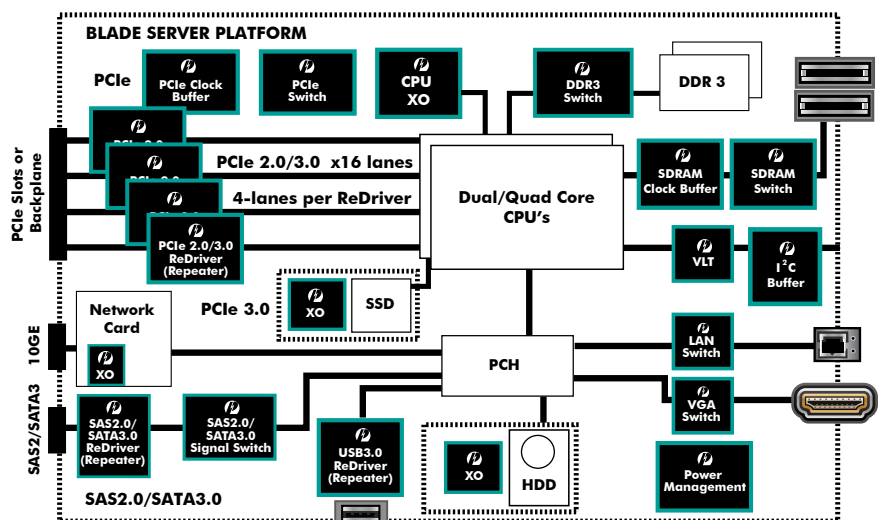
Starting with a low jitter timing source is the best way to minimize jitter. Pericom specializes in a wide variety of low jitter and low voltage clock generator/buffers, CMOS, PECL, LVDS/HCSL oscillators, and a family of ASSP oscillators specifically targeted to server and storage. For applications including timing for PCI Express, SAS, SATA, XAUI, RXAUI and 10GbE/40GbE

Wide Range of Serial Connectivity Solutions:

We have complete product families of :

- PCIe bridges, Packet switches, and Signal switches
- PCIe to USB/PCIe bridges, PCIe to UART bridges
- Bus switches, Analog switch and level translators for server and storage peripheral I/O functionality.
- I²C /Buffers/ReDrivers™ (Repeaters)/ SMBus

Pericom Solution for Blade Server





Cloud Computing (CC) is the latest server technology trend, utilizing much shorter design cycles and customer optimized features. Pericom supports this more aggressive TTM model by offering fast turn channel simulation support for our ReDriver™ (Repeater) products. Our experienced team works directly in parallel with our customer engineers to quickly model and finalize the complete high speed serial channel.

Pericom products enable connectivity of high-speed serial signals essential in the development of today's electronic systems and applications. Maximize the potential of PCI Express®, USB, SATA/SAS, DisplayPort™, HDMI™/DVI, Gigabit and 10Gb Ethernet, and more in your designs with Pericom.

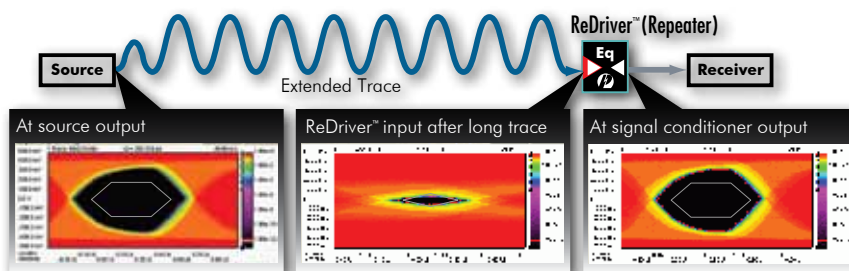
Pericom ReDriver™ (Repeater) & Signal Switch Solutions for Server & Storage

PCI Express® & 10Gb ReDriver™ (Repeater) Signal Conditioner

Part No.	Description	Gbps	Input Equalization, dB	Output Level	Package
PI2EQX4401D	1-lane PCIe ReDriver™ with Equalization & de-emphasis	2.5	0, 2.5, 4.5, 6.5	1.0x, 1.2x	36-TQFN (ZF36)
PI2EQX4402D	2-lane PCIe ReDriver™ with Equalization & de-emphasis	2.5	0, 1.5, 2.5, 3.5, 4.5, 5.5, 6.5, 7.5	0.8x, 1.0x, 1.2x, 1.4x	84-LFBGA (NB84)
PI2EQX4432D	2-lane PCIe ReDriver™/Equalizer with flow-through pinout	2.5	2.5, 6.5	1.0x, 1.2x	48-TQFN (ZD48)
PI2EQX5904	4-lane PCIe 2.0 ReDriver™ w/Pinstrap & I²C control	5.0	1.2, 1.5, 2.6, 4.3, 5.8, 7.1, 9.0, 12.3	0.5, 0.7, 0.9, 1.0	100-LBGA (NJ100)
PI2EQX5964	4-lane PCIe 2.0 ReDriver™ with I²C control	5.0	1.2, 1.5, 2.6, 4.3, 5.8, 7.1, 9.0, 12.3	0.5, 0.7, 0.9, 1.0	56-TQFN (ZF56)
PI3EQX5701	1-lane PCIe 2.0 ReDriver™ w/ Equalization & Emphasis	5.0	5, 11	1.0x	20-TQFN (ZD20)
PI3EQX5801	1-lane PCIe 2.0 ReDriver™ w/Equalization & Emphasis w/ Pinstrap & I²C control	5.0	1.2, 1.5, 2.6, 4.3, 5.8, 7.1, 9.0, 12.3	0.5, 0.7, 0.9, 1.0	20-TQFN (ZD20)
PI2EQX8804A	4-lane PCIe 3.0 ReDriver™ w/ Equalization & Emphasis	8.0	Contact Pericom for more info		100-LBGA (NJ100)
PI2EQX8864A	4-lane PCIe 3.0 ReDriver™ w/ Equalization & Emphasis, I²C/SM only	8.0	Contact Pericom for more info		72-TQFN (ZL72)
PI2EQX8814A	4-lane 10Gb ReDriver™ w/ Equalization & Emphasis	10.0	Contact Pericom for more info		100-LBGA (NJ100)
PI2EQX8814A-F	4-lane 10Gb ReDriver™ w/ Equalization & Emphasis & Flowthrough pinout	10.0	Contact Pericom for more info		100-LBGA (NJ100)

USB 3.0, SAS2.0, SATA3.0 XAUI ReDriver™ (Repeater) Signal Conditioner

Part No.	Protocol	Function	Package
PI3EQX7502	USB 3.0 ReDriver	5.0Gbps 1-port USB 3.0 ReDriver w/ Equalization & Emphasis	24-TQFN (ZD24)
PI3EQX501	USB 3.0 ReDriver	5.0Gbps 1-channel USB 3.0 ReDriver w/ Equalization & Emphasis	8-TQFN (ZA8)
PI3EQX502	USB 3.0 ReDriver	5.0Gbps 1-port USB 3.0 ReDriver w/Equalization and Emphasis	16-TQFN (ZH16)
PI3EQX7741	USB 3.0 ReDriver	5.0Gbps 1-port USB 3.0 ReDriver w/Equalization and Emphasis	20-TQFN (ZD20)
PI3EQX7742	USB 3.0 ReDriver	5.0Gbps 2-port USB 3.0 ReDriver w/ Equalization & Emphasis	42-TQFN (ZH42)
PI3EQX7841	USB 3.0 ReDriver	5.0Gbps 1-port USB 3.0 ReDriver w/Equalization and Emphasis and I²C Control	20-TQFN (ZD20)
PI2EQX3201A	SAS/SATAx/XAUI	3.2Gbps 1-port SAS/SATAx, XAUI ReDriver	36-TQFN (ZF36)
PI2EQX3202A	SAS/SATAx/XAUI	3.2Gbps 2-port SAS/SATAx, XAUI ReDriver	84-LFBGA (NB84)
PI2EQX3232A	SAS/SATAx/XAUI	3.2Gbps 2-port SAS/SATAx, XAUI ReDriver w/ flow-through pinout	48-TQFN (ZD48)
PI2EQX3421	SAS/SATA/XAUI	3.2Gbps 1-port SAS/SATA/XAUI ReDriver/Port 2:1Switch	28-TQFN (ZH28)
PI2EQX6811	SAS/SATA/XAUI	6.5Gbps 1-port SAS/SATA/XAUI ReDriver w/ Adjustable Equalization & Emphasis	20-ZD (TQFN20)
PI3EQX6801/6852B	SAS/SATA/XAUI	6.5Gbps 1-port SAS/SATA/XAUI ReDriver w/ Adjustable Equalization & Emphasis	20-ZD (TQFN20)
PI2EQX6812	SAS/SATA/XAUI	6.5Gbps 2-port SAS/SATA/XAUI ReDriver w/ Adjustable Equalization & Emphasis	42-ZH (TQFN42)
PI2EQX6814/6874	SAS/SATA/XAUI	6.5Gbps 4-port SAS/SATA/XAUI ReDriver w/ Adjustable Equalization & Emphasis	LFBGA (NJ100)/TQFN (ZF56)



PERICOM'S REDRIVER (REPEATER) ENHANCES SIGNAL INTEGRITY QUALITY

Pericom Timing Solutions for Server & Storage

Key Clocks for Server & Storage (please visit <http://www.pericom.com/products/clocks/> for a complete listing of clocks)

Part No.	Function	Frequency (MHz)	Outputs	I/O	Package
PI6C557-03A/B	PCIe 2.0/3.0 PCIe Clock Generator	25/100/125/200	2	HCSL	16-TSSOP
PI6C557-05/B	PCIe 2.0/3.0 Clock Generator	100/125/200	4	HCSL	20-TSSOP
PI6C557-10	PCIe 1.0/PCI Clock Generator	100, 33	1,1	CMOS, Differential	16-TSSOP
PI6C20400A/B	PCIe 2.0/3.0 Differential HCSL Clock Buffer, 3.3V	100	4	HCSL	28-SSOP, 28-TSSOP
PI6CEQ20200	PCIe 2.0/3.0 Differential HCSL Clock Buffer, 3.3V	100MHz	2	HCSL	20-TSSOP
PI6C557-06	PCIe 2.0/3.0 Differential HCSL Clock Buffer with two inputs	100MHz	4	HCSL	20-TSSOP
PI6LC4872	Ethernet and Fibre Channel Clock Generator	25, 100/125, 106.25, 156.25	7	CMOS, LVPECL/LVDS	40-TQFN
PI6C10806B	Clock Generator/Buffer	100	6	CMOS	16-TSSOP
PI6C10804	Clock Buffer, 1.8V/2.5V	250	4	CMOS	8-SOIC
PI6C10810	Clock Buffer, 1.2V~2.5V	250	10	CMOS	20-TSSOP
PI6C20800S/B	PCIe 2.0/3.0 Differential HCSL Clock Buffer, 3.3V	95-105	8	HCSL	48-TSSOP, 48-SSOP
PI6C48533	Differential to LVPECL Clock Buffer, 3.3V	800	4	LVPECL	20-TSSOP
PI6C49S1510	1:10 Selectable Differential Buffer	1500	10	Differential	48-TQFN
PI6C557-01B	Single HCSL output PCIe Clock Generator	100	1	HCSL	16-TQFN

ASSPXO™ for Server & Storage

ASSP XO PART #	KEY APPLICATIONS	CONNECTIVITY STANDARD	FREQ. (MHz)	PACKAGE (mm x mm)	LEVEL	SUPPLY VOLTAGE
FNSAS2075	SAS2/SATA3 Host Bus Adapter/RAID Controller	SAS2/SATA3	75	7 x 5	CMOS	3.3V
SNSAS2150			150		PECL	
FNDDR1133		DDR2	133.33		CMOS	
FKSSD1025	SASx/SATAx Solid State Drive	SATAx/SASx	25	3.2 x 2.5	CMOS	2.5V
FDSAS2062	SAS2/SATA3 Hard Disk Drive	SAS2/SATA3 HDD	62.5	5 x 3.2	CMOS	2.5V
FDSAS6062						1.8V
SQPCIE100	PCIe	PCIe 2.0, PCIe 3.0	100	5 x 3.2	HCSL	3.3V
SX10GE156	10GE NIC	10GE	156.2	7 x 5	CMOS	3.3V
SN10GE156					PECL	
UX7040GE01	40GE	40GE	156.25	7.0 x 5.0 x 2.0	LVPECL	3.3V
UX5040GE01			156.25	5.0 x 3.2x 1.2	LVPECL	3.3V

Pericom Voltage Level Translation/ Bus Switch/USB Power Switch for Server & Storage

Voltage Level Translation & Bus Switch

Part No.	Description	Package
PI3VT3245-A	3.3V to 2.5V, 8-bit, 2-port, Low Voltage Translator	20-QSOP (Q20), 20-TSSOP (L20)
PI3VT32X245-A	2.5V to 1.8V, 16-bit, 2-port, Low Voltage Translator	40-BQSOP (B40)
PI4ULS5V102	1.2V to 5.5V, 2-bit, Automatic Direction Sensing Voltage Translator	8-MSOP (U8), 8-CSP (GA8)
PI4ULS5V104	1.2V to 5.5V, 4-bit, Automatic Direction Sensing Voltage Translator	12-CSP (GA12), 14-QFN (ZB14)
PI4ULS3V08M/16	1.2V to 3.6V, 8-bit, 16-bit Automatic Direction Sensing Voltage Translator	32-TQFN (ZL32), 36-TQFN (ZF36)
PI4ULS5V202	1.2V to 5.5V, 2-Bit Bi-directional Level Shifter with Automatic Sensing	8-MSOP (U8), UDFN
PI6ULS5V201	1.2V to 5.5V, 1-Bit Bi-directional Level Shifter with Automatic Sensing	6-SOT23 (TA6), UDFN
PI6ULS5V9306	1.2V to 3.3V, Dual Bi-directional I ² C-bus and SMBus voltage-level translator	8-MSOP (U8), 8-TDFN (ZE8)
PI6ULS5V9509	1.0V to 5.5V, Level Translating I ² C-Bus/SMBus Repeater with Tiny Package	8-MSOP (U8), 8-SOIC (W8), UQFN
PI6ULS5V9515A	2.3V to 3.6V, I ² C Bus/SMBus Repeater	8-MSOP (U8), 8-SOIC (W8), 8-TDFN (ZE8)
PI6ULS5V9517A	0.9V to 5.5V, Level Translating I ² C Bus/SMBus Repeater	8-MSOP (U8), 8-SOIC (W8), 8-TDFN (ZE8)
PI74AVC164245A/LA	3.3V to 1.8V/2.5V, 16-bit Level Shifting Transceiver	48-SSOP (V48), 48-TSSOP (A48)
PI74HSTL1212	3.3V to 1.8V, 24-bit HSTL Bi-Directional Level Shifting Transceiver	64-TSSOP (A64)
PI3C3306	2.5V/3.3V, 2-bit, 2-port High-bandwidth Bus Switch	8-TSSOP (L8), 8-MSOP (U8)
PI3C3125	2.5V/3.3V, 4-Bit Bus Switch with Individual Low Enables	16-QSOP (Q16)

Pericom Voltage Level Translation/ Bus Switch/USB Power Switch for Server/Storage cont..

Part No.	Function	Package
PI3CH480	2.5V/3.3V, Quad 2:1 Mux/Demux Bus Switch	16-QSOP (Q16), 16-TSSOP (L16)
PI3C3384	2.5V/3.3V, 10-Bit Bus Switch	24-QSOP (Q24)
PI3B3257	3.3V, Quad 2:1 Multiplexer/Demultiplexer Bus Switch	16-QSOP (Q16)
PI3CH281	2.5V/3.3V, Dual 4:1, Multiplexer/Demultiplexer Bus Switch	16-QSOP (Q16), 16-TSSOP (L16)
PI3C32X245	2.5V/3.3V, 16-Bit Bus Switch	40-BQSOP (B40)
PI3CH800	2.5V/3.3V, 8-Channel, 2-Port, High-speed NanoSwitch Bus Switch	20-TSSOP (L20), 20-QSOP (Q20)
PI3CH1000	2.5V/3.3V, 10-Channel, 2-Port High-speed NanoSwitch Bus Switch	24-TSSOP (L24)

USB Power Switch

Part No.	Function	Package
PI5PD2051B	70Ω, 1A Current-Limited, Power-Distribution Switch	5-SOT23 (TA5)
PI5PD2065	70Ω, 1.5A Current-Limited, Power-Distribution Switch	5-SOT23 (TA5), 8-SOIC (W8), EP-MSOP8 (UE8)
PI5PD2069	70Ω, 2.1A Current-Limited, Power-Distribution Switch	8-SOIC (W8), 8-MSOP (U8)

LAN Switches

Part No.	Description	Voltage	Package
PI3L110	Quad 2:1 Mux (Fast Ethernet)	3.3V	16-TSSOP (L16), 16-QSOP (Q16)
PI3L500/500-A	8-channel 2:1 Mux/ Gigabit Ethernet	3.3V	56-TQFN (ZF56)
PI3L720	8-channel 2:1 Mux/ Gigabit Ethernet	3.3V	48-TSSOP (L48), 48-TVSOP (K48)

Pericom PCIe Solutions for Server & Storage
PCI Express® DDR3, SAS/SATA Signal Switch (Lane/Port Switching)

Part No.	Description	Voltage	Lanes	Data Rate Gbps	Package
PI2PCIE2412/22	PCIe 2.0, 2:1 mux/demux, 4-channel	1.8V	2	5	TQFN-42 (ZH42)
PI2DDR3212	DDR3 14-bit 2:1 mux/demux	1.5V -1.8V	14	2.33	TQFN-52 (ZL52), TFBGA-48 (NC48)
PI3PCIE2215	PCIe 2.0, 1-lane bi-directional Differential 2:1, with single control	3.3V	1	5	28-TQFN (ZH28)
PI3PCIE2415	PCIe 2.0, 2:1 mux/demux, 4-channel	3.3V	2	5	42-TQFN (ZH42)
PI3PCIE3412/15/22	PCIe 3.0, 2:1 mux/demux, 4-channel	3.3V	2	8	42-TQFN-42 (ZH42)
PI2DBS6212	SAS 2.0, SATA 3.0, RXAUI 1-lane, 2-channel	1.5V -1.8V	1	6.5	28-TQFN (ZH28)
PI3PCIE3413	PCIe 3.0, 3:1 mux/demux, 2-lane, 4-channel	3.3V	2	8	42-TQFN-42 (ZH42)

PCI Express® Packet Switches

Part No.	Description	Protocols	Ports	Lanes	Package
PI7C9X20303SL	3-port, 3-lane, SlimLine™ PCIe Packet Switch with PowerSave™ Technology	PCIe 1.1	3	3	128-LQFP (FD128)
PI7C9X20404SL	4-port, 4-lane, SlimLine™ PCIe Packet Switch with PowerSave™ Technology	PCIe 1.1	4	4	128-LQFP (FD128)
PI7C9X20303UL	3-Port, 3-Lane, UltraLo™ PCIe Packet Switch with PowerSave™ Technology	PCIe 1.1	3	3	132-TQFN (ZP132)
PI7C9X20505GP	5-port, 5-lane, PCIe Packet Switch with GreenPacket™ Technology	PCIe 1.1	5	5	256-PBGA (ND256)
PI7C9X20508GP	5-port, 8-lane, PCIe Packet Switch with GreenPacket™ Technology	PCIe 1.1	5	8	256-PBGA (ND256)
PI7C9X2G303EL	3-port, 3-lane, ExtremeLo™ PCIe Packet Switch with PowerSave™ Technology	PCIe 2.1	3	3	136-aQFN (ZX136)
PI7C9X2G304SL	3-port, 4-lane, SlimLine™ PCIe Packet Switch with PowerSave™ Technology	PCIe 2.1	3	4	128-LQFP (FD128)
PI7C9X2G404SL	4-port, 4-lane, SlimLine™ PCIe Packet Switch with PowerSave™ Technology	PCIe 2.1	4	4	128-LQFP (FD128)

PCI Express® Bridges

Part No.	Description	PCI Bus Masters	PCI Speed	PCI Bus Width	Ports	Lanes	Package
PI7C9X111SL	PCIe-to-PCI Reversible Bridge with PowerSave™	4	66 MHz	32-bit	1 PCI	1	LQFP (FD128)
PI7C9X112SL	PCIe-to-PCI Bridge with PowerSave™	8	66 MHz	32-bit	1 PCI	1	LQFP (FD128)
PI7C9X113SL	PCIe-to-PCI Bridge with PowerSave™ Legacy Mode	4	66 MHz	32-bit	1 PCI	1	LQFP (FD128)
PI7C9X130	PCIe-to-PCI-X Reversible Bridge	-	133 MHz	64-bit	1 PCI-X	4	PBGA (ND256)
PI7C9X7952/4	PCIe-to-Dual UART I/O Bridge	-	-	-	2/4 UART	1	LQFP (FD128)
PI7C9X7958	PCIe-to-Octal UART I/O Bridge	-	-	-	8 UART	1	LFBGA (NB160)
PI7C9X442SL	Swidge™ PCIe-to-USB 2.0/PCIe	-	-	-	4 USB/2 PCIe	1	LQFP(FD128)
PI7C9X440SL	PCIe to USB 2.0 Host Controller	-	-	-	4 USB	3	LQFP(FD128)