

Timing

Precise Timing References & Clock Distribution Solutions

■ Timing IC

- ▶ **HiFlex™ Clock Gen.**
 - ♦ As low as 0.3ps phase jitter
- ▶ **FlexOUT™ Buffer**
 - ♦ 0.03ps additive jitter
- ▶ **Broad Portfolio**
 - ♦ Buffer, Generators, Jitter Cleaners, Zero Delay Buffer
 - ♦ Large industry pinout match

■ Real Time Clock

- ♦ IC solution and embedded crystal solution

■ Crystal & Crystal Oscillators (XO)

- ▶ **ASSPXO/VCXO**
 - ♦ 1G/10G/40Gb Ethernet, Fibre channel, SATA/SAS, PCIe, SONET/SDH
 - ♦ Used in tier 1 40Gb Ethernet reference designs
- ▶ **Programmable XO (HiFlex™ XO)**
 - ♦ < 1ps jitter
 - ♦ LVPECL: 10~400MHz; CMOS: 10~212MHz
- ▶ **MHz XO**
 - ♦ Standard to ultra low jitter (<0.1ps)
 - ♦ LVECL, LVDS, HCSL; up to 800MHz
 - ♦ CMOS -1~212.5MHz
 - ♦ Size: 7.0x5.0 to 2.0x1.6
- ▶ **32.768KHz XO**
 - ♦ Tight stability: 25ppm
 - ♦ I_{DD} as low as 10uA (typ.)
 - ♦ Size: 7.0x5.0 to 2.5x2.0
- ▶ **VCXO - CMOS, LVPECL & LVDS**
 - ♦ Up to 800MHz
 - ♦ Size: 7.0x5.0 to 2.5x2.0
- ▶ **TCXO/VCTCXO 0.5ppm ~ 5ppm**
 - ♦ Clipped Sinewave, Size: 3.2x2.5, 2.5x2.0
- ▶ **Crystals (Xtals) - kHz and MHz (SMD)**
 - ♦ Up to 66MHz
 - ♦ Size: down to 1.6x1.2

* All Dimensions = mm

About Pericom

Pericom® Semiconductor Corporation (NASDAQ: PSEM) enables serial connectivity with the industry's most complete solutions for the computing, communications and consumer market segments. With products spanning analog, digital and mixed-signal integrated circuits, power management solutions and quartz-based frequency control products (FCP), Pericom supplies essential solutions for the timing, switching, bridging and conditioning of high-speed signals required by today's ever-increasing speed-and-bandwidth-demanding applications.

Company headquarters are in Milpitas, California, with design centers and technical sales and support offices around the world.

Diversified Market Solutions for Global Customers

Within the computer, communications, and consumer markets, Pericom focuses on high-growth segments. This focus allows alignment between multi-product penetration opportunities and Pericom's technology focus.

Why Choose Pericom?



GLOBAL SALES & SUPPORT

- Technical experts
- Award-winning customer service
- Sales & technical support in Asia, Europe & the Americas



HIGH-PERFORMANCE PRODUCTS

- Enabling key industry trends
- Broad spectrum of product offerings
- Best-in-class performance solutions
- Pb-Free & Green products



STRONG OPERATIONS

- ISO 9001 Certified
- High-volume production
- Experienced management team
- Financially Strong



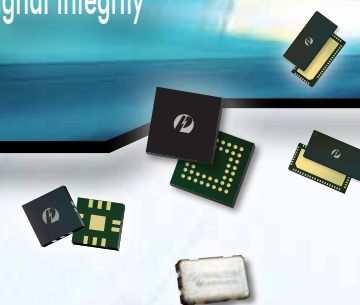
ENABLING SERIAL CONNECTIVITY FOR ALL HIGH-SPEED PROTOCOLS:

USB3.0
XAUI/RXAUI
SAS 2.0/3.0
SATA 2.0/3.0
HDMI/DVI
DISPLAYPORT
PCI EXPRESS 1/2/3
1/10/40Gb ETHERNET
LVDS



Enabling High-speed Serial Connectivity

For all your Timing, Signal Integrity & Connectivity Needs



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Signal Integrity

Protocol Specific Signal Integrity Solutions

- **PCIe 1.0/2.0/3.0 ReDrivers™**
 - ♦ Flow through & interleave pinouts
 - ♦ Advanced low power, small TQFN packages
 - ♦ Fully compatible with PCIe channels
- **10Gb ReDrivers™**
 - ♦ 10Gb/40Gb covering SFI, XFI and KR applications
- **USB 3.0 ReDrivers™**
 - ♦ Small packages for mobile platforms
 - ♦ Only USBIF certified vendor
 - ♦ 3.3V & lower V_{DD} options
 - ♦ Single/Dual channel options
- **SATA 2.0/3.0 ReDrivers™**
 - ♦ 2/4/8 Channel offering
 - ♦ SATA 3.0 fully compliant
- **SAS 2.0/3.0 ReDrivers™**
 - ♦ Low voltage/power options
 - ♦ Advanced low power, small TQFN
 - ♦ PinStrap or I²C programming
- **XAUI/RXAUI ReDrivers™**
 - ♦ 6.25Gb, 1/2/4 port options
- **DisplayPort ReDrivers™**
 - ♦ DP1.2 support
 - ♦ Supports Auto-test
- **HDMI ReDrivers™**
 - ♦ Complete family of port options
 - ♦ HDMI 2.0/1.4 support
 - ♦ Very low additive jitter

Connectivity

Broadest Switching, Bridging & Routing Solutions

- **High Speed Signal Switch & Multiplexers**
 - ▶ **USB2.0/3.0 Switches**
 - ♦ Largest family of high bandwidth MUX options
 - ♦ Fully compatible with USB specifications
 - ▶ **Thunderbolt Switches**
 - ♦ Fully integrated 10Gb switch
 - ♦ 3-Port Mux/Demux
 - ▶ **HDMI/DP Video Switches**
 - ♦ Largest family of high bandwidth, low power options
 - ♦ Very low insertion loss, HDMI 2.0/DP 1.2 support
 - ▶ **PCIe Gen 2.0/3.0/10Gb/12Gb/XAUI/SAS2/3 SATA2/3**
 - ♦ Lowest Insertion and crosstalk loss
 - ♦ High bandwidth, protocol specific
 - ▶ **VGA Switches**
 - ♦ Auto video DAC disable
 - ♦ Small package
 - ▶ **USB Charging Controller**
 - ♦ Supports all popular phones and tablets
 - ♦ Integrated voltage, current and thermal protection
- **Interface Logic**
 - ▶ **LVDS**
 - ♦ Legacy family of PI90XX
 - ♦ Receivers/transceivers
 - ▶ **Standard Logic**
 - ♦ Complete family of bus switches
 - ♦ Complete family of analog switches
 - ▶ **Voltage Translation/Level Shifters**
 - ♦ Auto sense current direction
 - ♦ All popular voltage and I/O levels
 - ▶ **I²C Buffers/ReDrivers**
 - ♦ Complete family - Extend fanout
- **PCIe/PCI/PCIX Bridges**
 - ♦ Largest selection in the industry
 - ♦ Both native and legacy mode options
- **PCIe 1.0/2.0 Packet Switches**
 - ♦ Lowest power, smallest package
 - ♦ From 3-port, 3-lanes to 6-port/12-lanes
 - ♦ Advanced power management features

Connectivity

Switching, Bridging & Routing Solutions Cont..

- **Video Decoders**
 - ♦ Adaptive EQ for highest picture image
 - ♦ 4 and 8- channel BT656 or PCIe interface
- **PCIe to UART**
 - ♦ 2, 4 and 8 port single chip options
 - ♦ RS232/422/485 support
- **PCIe to USB/PCIe**
 - ♦ PCIe to 4 USB port controller
 - ♦ PCIe to 4 USB + 2 PCIe ports
 - ♦ Many power management options
- **Power Management IC**
 - ▶ **USB Power Switches**
 - ♦ Complete fault protection
 - ▶ **Load Switches**
 - ♦ Unique linear turn on, lowest industry power
 - ▶ **LDO Voltage Regulators**
 - ♦ Low noise, high ripple rejection
 - ♦ Super tiny packages (0.8x0.8mm)
 - ▶ **Micro Processor Supervisory IC**
 - ♦ Complete family of multi/single channel voltage monitors
- **Home Appliance**
 - ▶ **Charger**
 - ♦ Li-ion/NIMH controllers
 - ▶ **DC Motor Controller**
 - ♦ Fully integrated motor driver/controllers
 - ▶ **Heating Controller**
 - ♦ Sensorless heating element control
 - ♦ Fast heat up
 - ▶ **Iron Controller**
 - ♦ Proprietary position sensing smart controller
 - ▶ **Passive Infrared Controllers**
 - ♦ 2/3 Wire controllers
 - ▶ **Remote Controller**
 - ♦ Complete family of encoder/decoder controllers for toys
 - ▶ **Universal Timer (Adjustable)**
 - ♦ Supports 110/220V AC supply
 - ♦ Direct relay drive capability
 - ▶ **Universal Timer (Fixed)**
 - ♦ Safety power control applications
 - ♦ Quick test mode