

mixel

**Mixed-Signal
Excellence**
Ashraf Takla
CEO



Corporate Overview



- Was founded in 1998
- HQ in San Jose, CA
- Offers a wide range of interface and mixed signal IPs such as PHYs, SerDes, PLL, DLL, Transceivers, DAC, and ADC
- Specializes in low-power, high-performance, low-cost, CMOS implementation
- Supports main foundries, and most common process nodes



IP Portfolio I:



- PLL & DLL

- MXL-PLL-SYN: Frequency Synthesizer
- MXL-PLL-CDR: Clock/Data Recovery IP
- MXL-DLL: CMOS High Speed DLL IP

- Transceivers

- MXL-TXRX-DRR2: DRR2 Transceiver
- MXL-TXRX-SSTL18: 1.8V SSTL Transceiver
- MXL-TXRX-HSTL: HSTL TX/RX
- MXL-TXRX-CEATA: CE-ATA TX/RX
- MXL-TXRX-UCB: Universal CardBus TX/RX
- MXL-TXRX-PATA: Parallel-ATA TX/RX
- MXL-TXRX-PCIX: PCI-X TX/RX
- MXL-TXRX-LVDS: LVDS Transceiver
- MXL-TXRX-MDDI: VESA MDDI Compliant Transceiver



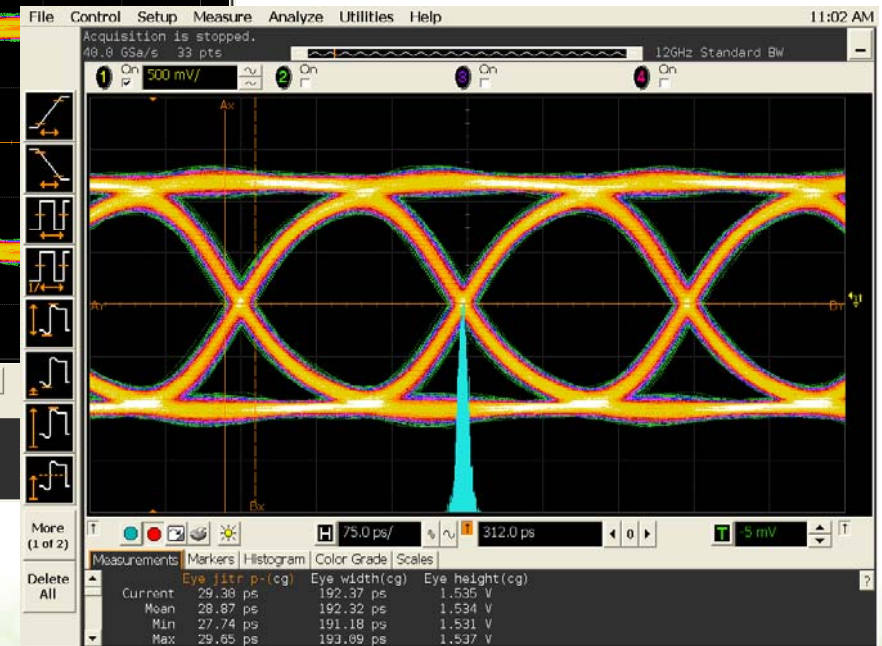
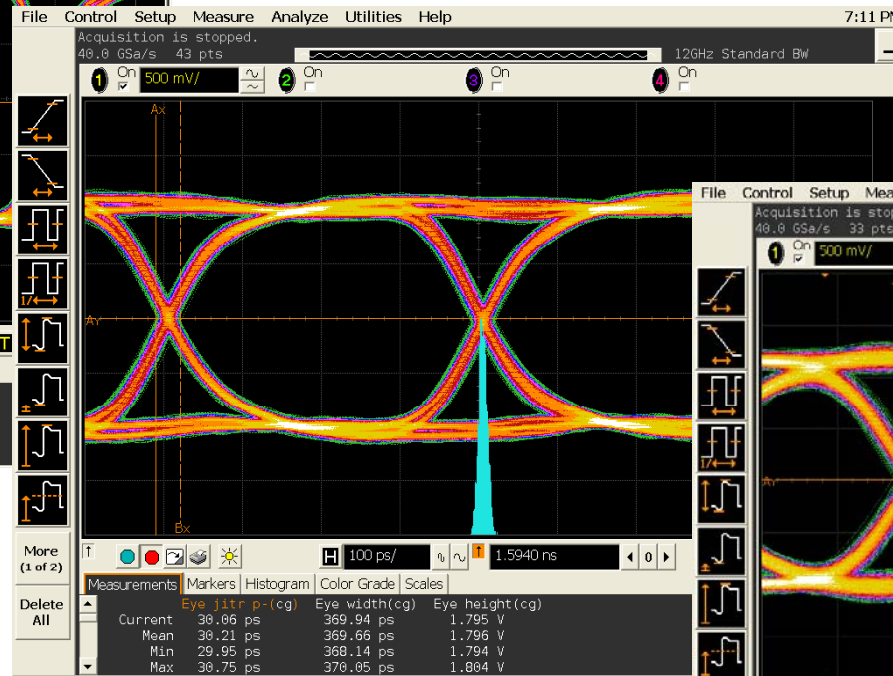
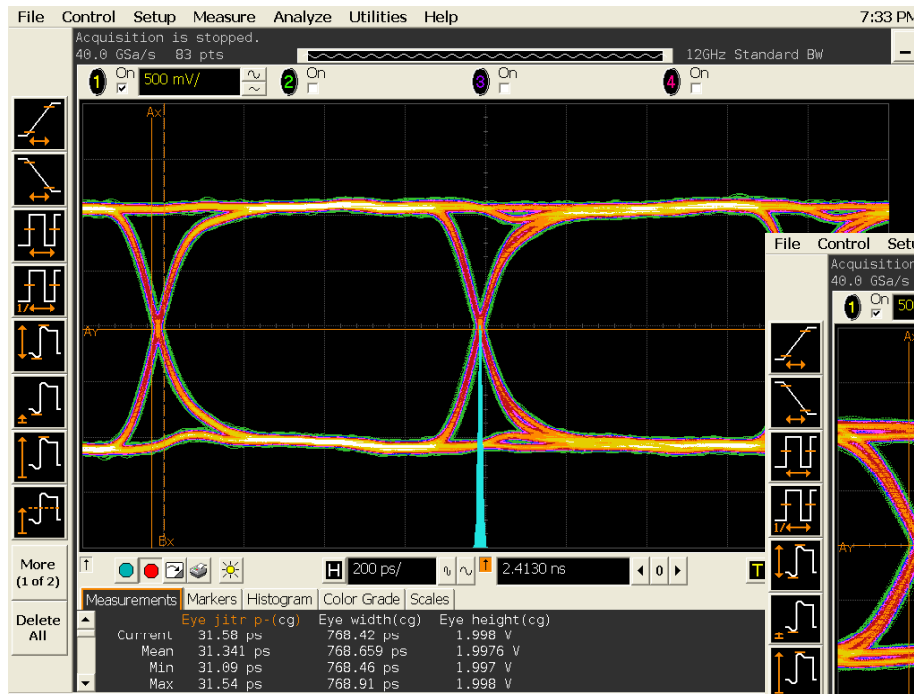
Interface IP Offerings II



- SerDes
 - MXL-SR-LVDS: Four Channel LVDS Serializer/Transmitter
 - MXL-DS-LVDS: Four Channel LVDS Receiver/De-serializer
 - MXL-SRDS-2500: 2.5 Gigabit Transceiver/SerDes
 - MXL-SRDS-4254: 4.25 Gigabit Quad Transceiver/SerDes
- Data Conversion
 - MXL-ADC9: Low Power 9-Bit ADC
 - MXL-ADC10: 10-Bit ADC
- Analog Blocks
 - MXL-BGR: Buffered Band Gap Reference
 - MXL-BGRLV: Low Voltage Band Gap Reference
 - MXL-AMUX4: Analog MUX
 - MXL-LVDET: Low Voltage Detector



SerDes eye-diagram



SerDes Applications



- Network-backplanes
- SONET-OIF
- DVI
- Gigabit Ethernet
- XAUI
- PCI-Express
- SATA



Summary



- Offer broad range of silicon-proven Mixed-Signal IPs
- High performance, low power with high programmability
- Outstanding customer support through transfer to production
- Growing IP Portfolio in advance process nodes (90nm and lower) and growing applications and standards (MDDI, MIPI, DDR2 , PCI-E, SATA)



Your Mixed Signal IP Partner

Come Visit us t DAC booth #1180

Thank you!



- Please stay and talk with Ashraf
- Explore Mixel IP at ChipEstimate.com
- Use Mixel IP to Plan a Chip at DAC (get a DAC Trip Report!)

