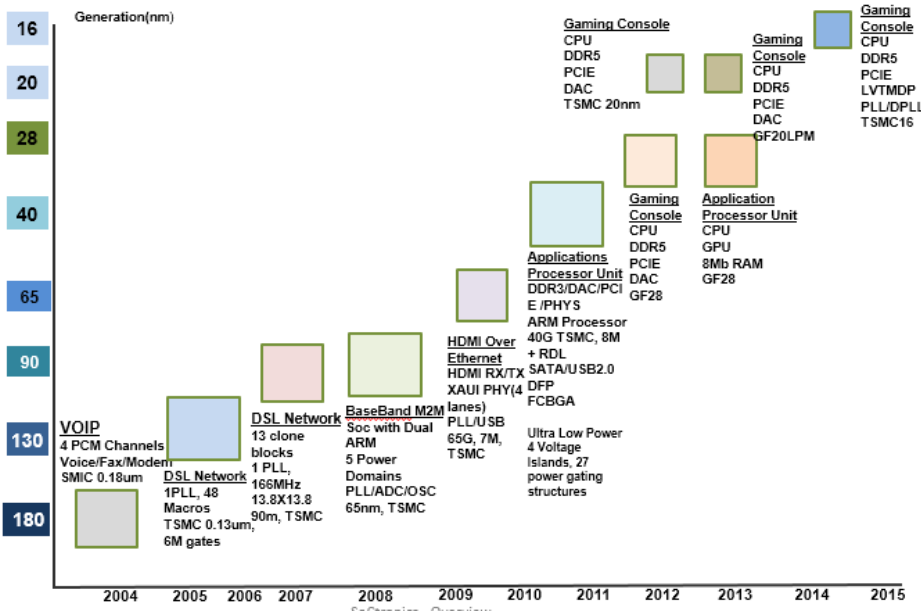


Overview

SoCtronics is a customer-focused VLSI design and embedded software service company since 2000. The company has operating entities in Hyderabad, India and Santa Clara, California. SoCtronics offers complete spec-to-silicon turnkey solutions that include embedded systems and software/firmware co-development. The company has over 500 employees worldwide and is privately owned and operated.

VLSI Project Highlights



India's SoCtronics claims 28-nm design win

Peter Clarke

10/19/2011 8:19 AM EDT

SoCtronics Quick Facts

- Started operations in 2000
- Privately owned and operated
- Design centers and sales offices in Santa Clara, California and Hyderabad, India
- 500+ employees world wide

VLSI Design Foundry™

- RTL Development
- IP Selection
- Analog / Mixed Signal Circuit Design
- Functional Verification
- Static Timing Analysis
- Synthesis
- Power Optimization
- DFT/ATPG
- Physical Implementation
- IP Hardening
- Formal Verification
- Physical Verification
- Package/Substrate Design
- Test Program Development
- Product Qualification

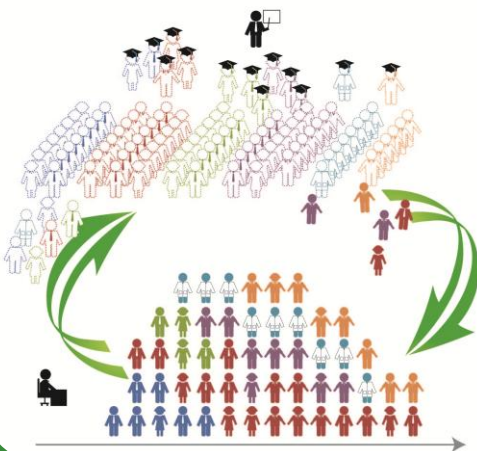
Engagement Models

- Point task and augmentation
- Turnkey with Spec to SOW to Deliverables
- Off-shore Design Center with Experts On Demand benefits
 - Staff and facilities in India
 - Operated by SoCtronics
 - Directed by client

SoCtronics specializes in

- Complex designs with one or more embedded CPUs
- Integrated standard protocol IPs such as PCIe, DDRx, USB, GbE, SATA, etc.
- Multiple embedded memories
- Embedded ADC / DAC
- High speed IOs
- Hardware and software co-development

Experts On Demand Model



Customer Benefits:

Scalable resources under client control

Flexible ODC team composition

Up-to-date skill set

Minimal headcount impact to client

Indirect access to industry experts

Shared facilities and licenses

Significant project cost reduction

Proven track record

Confidentiality and security

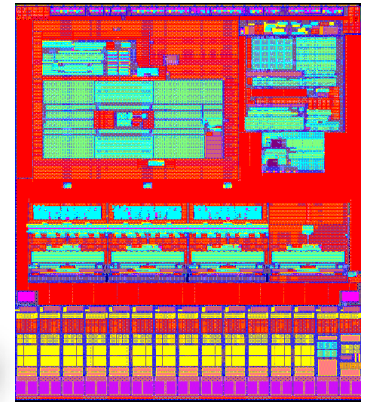
<http://www.soctronics.com/>

Highlights of Complex VLSI Designs

Application	Process	Complexity		
		IP Macros / Blocks	Logic gates	Transistors
Gaming Console	GF20LPM	CPU/DDR5/PHY/DAC/PLLs/PCIe/SRAMs	200M	820M
Gaming Console	TSMC 20nm	CPU/DDR5/PHY/DAC/PLLs/PCIe/SRAMs	220M	820M
Applications Processor	GF28A	SOC w. CPU+GPU +NB w. 8Mb SRAMs	120M	440M
Graphics Processor	40nm	DDR5/PHY/DAC/PLLs/PCIE & dual/SRAMs	156M	626M
CPU + GPU	40nm	SOC w. CPU + GPU + NB w.>8Mb SRAM	15M	60M
Graphics Processor	55nm	DDR3/PHY/DAC/PLLs/PCIe w. SRAMs	73M	292 M

Analog / Mixed Signal

HDMI 1.4A Transmitter
Processes 28HPL/M, 40LP, 55LP, 55G, 65LP, 65G
Metal schemes: 6M, 7M, 8M
225Mhz , 300Mhz , 350Mhz and 600Mhz



Embedded Systems Design Foundry™

- Multimedia IP, Software Development
- Reference Platform Development
- Peripheral Drivers, Firmware, API
- Pre-silicon / Post-silicon Validation
- Complete System Software
- Android, iOS Applications
- Software Testing and QA



Embedded Systems Project Highlights

- Audio/Speech/Video codecs on multiple processor platforms - ARM, Xtensa, ARC, MIPS, TI, HyperX, etc.
- Complete audio subsystem software including codecs on multi-core architecture for high end gaming applications
- Android application for medical diagnostics and collection device
- Android based custom mobile platforms for vertical markets
- System software in Android/RTOS for Wearables, SSDs, Low power computing
- Standard peripheral drivers on multiple OS platforms
- Board support package and production diagnostics for an educational tablet device
- Pre-silicon and post-silicon validation for game console SOC and mobile application processor
- Software testing & QA for high performance graphics processors and platforms, Android applications

Corporate training from VEDA IIT



SoCtronics draws its enormous technical strengths and talent pool through training partnership with VEDA IIT, a premier institute in the field of VLSI engineering and embedded systems (established 1997). SoCtronics employees also gain the opportunity to train in the latest technologies by VEDA IIT in meeting ongoing project demands. This relationship helps to quickly ramp-up to meet the growing manpower needs during critical phases of the customer projects.

<http://www.vedaiit.com/>

Customer Testimonials

SoCtronics has helped us solve difficult technical challenges and address urgent project needs.

VP Engineering, Publicly listed fabless semiconductor company

SoCtronics has provided high quality engineering teams at steep ramp-up cycles to meet our project needs.

Executive VP Engineering, Publicly listed fabless CPU IC company

We have had our share of urgent projects and difficult challenges. SoCtronics showed time and again that they have the customer's priorities in mind and helped us meet those challenges.

VLSI Engineering Director, Publicly listed fabless company

SoCtronics is a quality conscious, technically competent and schedule sensitive engineering services provider. Our project was for spec to silicon. SoCtronics met and exceeded our expectations in every step of the project.

VP & GM, Publicly listed fabless company

We have used SoCtronics resources primarily as verification and application support teams. We are quite satisfied with their responsiveness and high work quality.

VP & GM, Publicly listed fabless EDA/IP company

<http://www.soctronics.com/>

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