



## Dré van den Elshout

Global Marketing Manager



#### Handshake Solutions.....



- ... helps its customers implementing innovative silicon solutions by offering a combination of:
  - IP blocks (such as microcontrollers)
  - Design tools
  - Services
- ... enables to exploit the inherent benefits of Handshake Technology
  - Ultra low power
  - Reduced ground bounce
  - Low electromagnetic emission
  - Robustness against voltage and temperature variations





## **ARM - Handshake Solutions Partnership**

Partnership announced in October 2004



- Jointly develop ARM core implementations
  - Enables new classes of applications where needs for ultra-low power, low electromagnetic emissions, and robustness converge
- ARM996HS announced in February 2006
  - Jointly market and promote the ARM996HS
  - Licensing of the ARM996HS is done by ARM Ltd

#### Potential application domains

- Automotive
- Low-cost consumer electronics
- Wireless
- Medical implants
- Smartcards
- Sensor networks



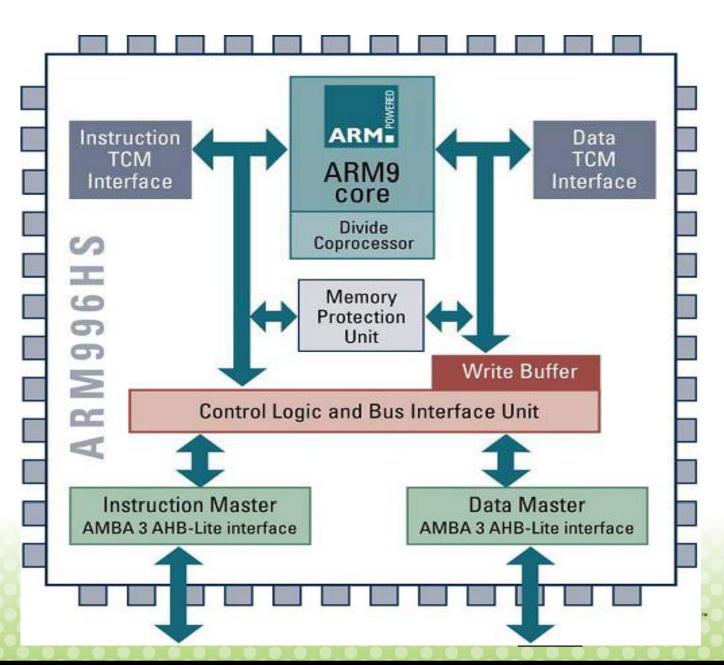


#### **ARM996HS Overview**

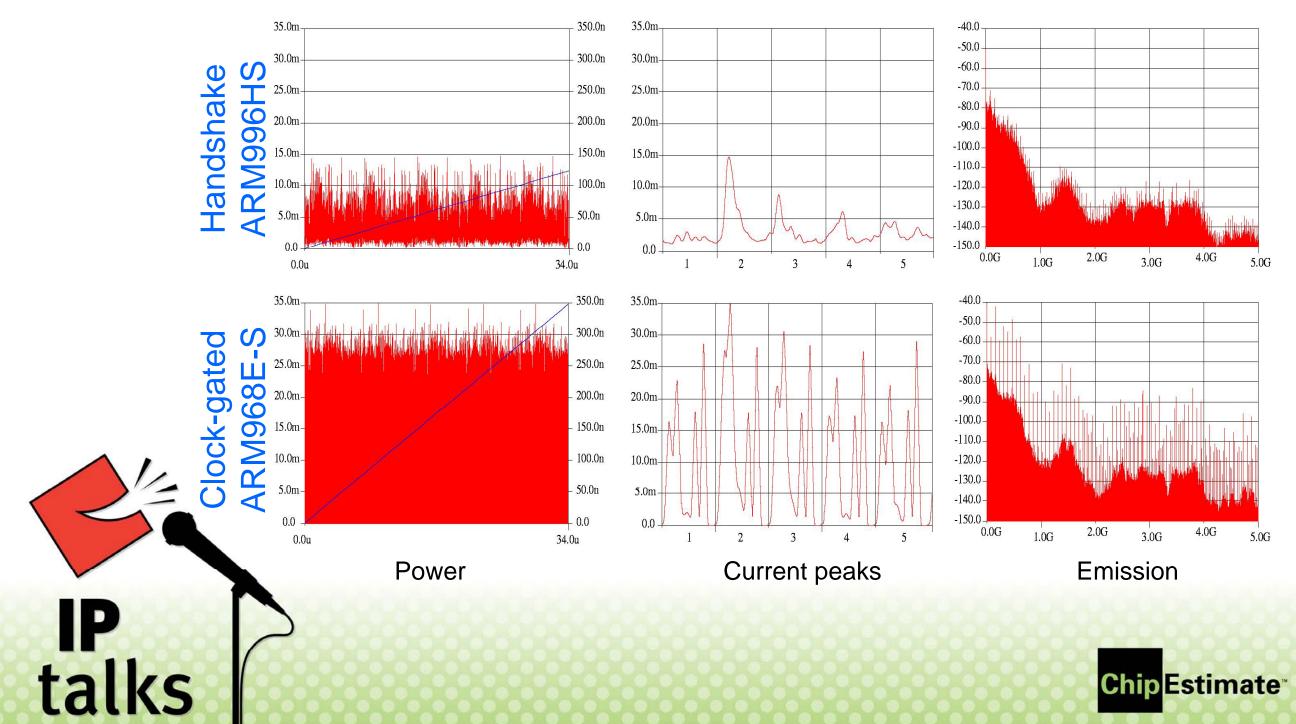
- 32-bit RISC CPU core
- ARMv5TE architecture
- Five-stage integer pipeline
- Fast 32-bit MAC
- 16-bit Thumb® and 32-bit ARM instruction sets
- Harvard bus architecture
- Dual AMBA™ 3 AHB-Lite™ interfaces
  - Instruction interface
  - Data interface

Memory-protection unit (MPU) Nonmaskable interrupts (NMI) Hardware divide



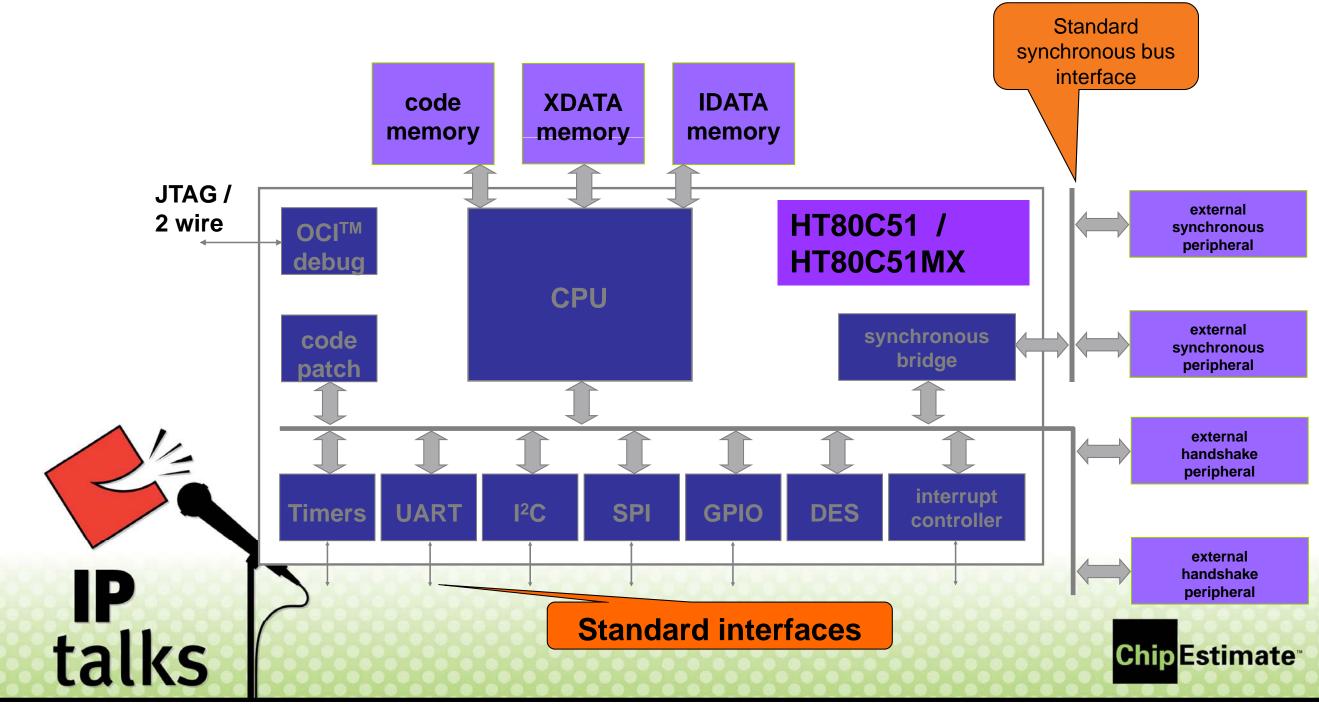


#### **Characteristics**





#### 80C51 based IP cores



### Market proven











- More than 200 million ICs with Handshake Technology sold
- 25+ market-tested products
- Proven by many years of use in design projects
  - Applications in:
    - **Smartcards**
    - Automotive
    - Wireless connectivity Chip Estimate



# Thank you!

HANDSHAKE SOLUTIONS

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



