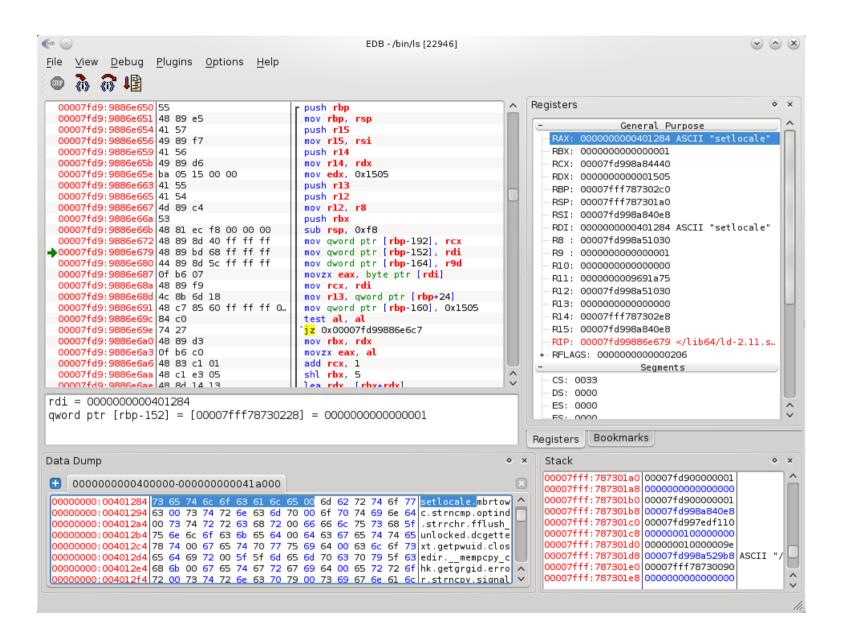
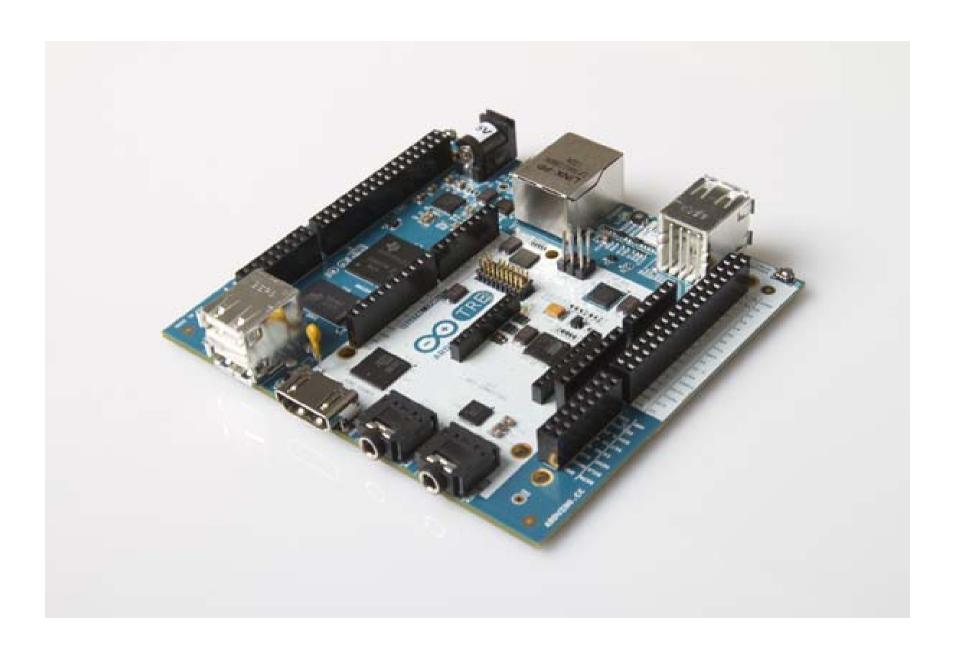
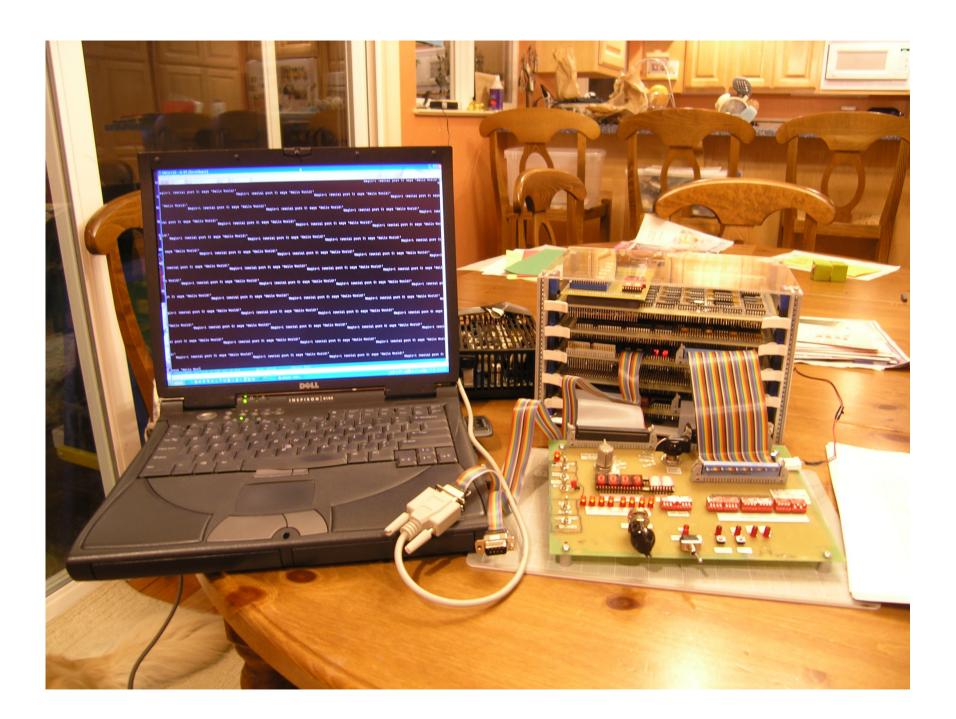
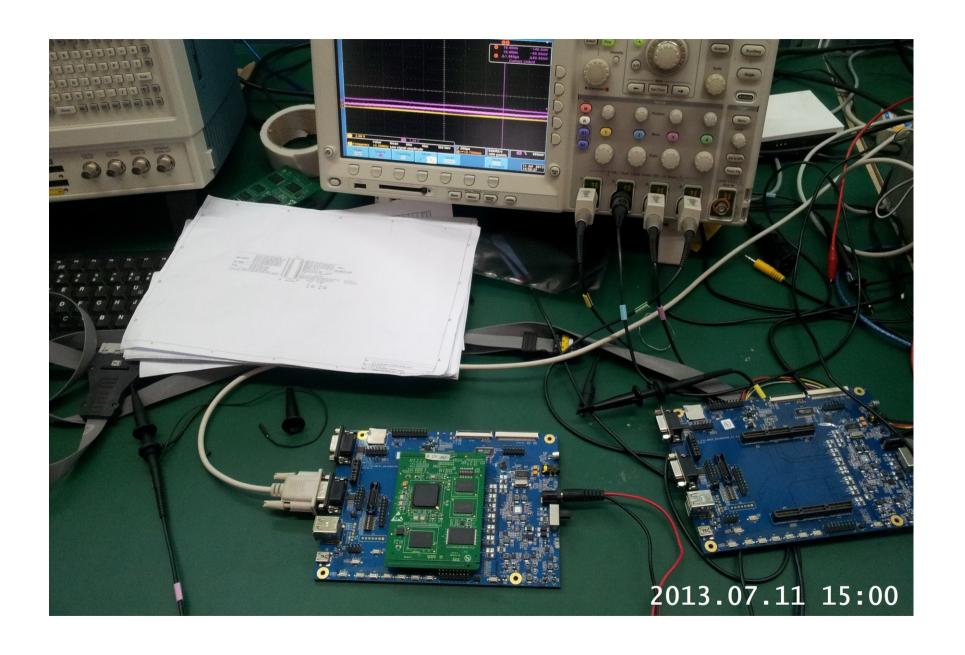
Debugging Electronics for the Software Engineer











What will you learn here?

- No basic electronics
 - You know what a resistor is
 - You have a hardware guy to support you
- No advanced electronics either
 - That what you have the hardware guy for

 Just a couple of tricks your hardware guy should have told you a long time ago Ulrich Tietze Christoph Schenk Eberhard Gamm

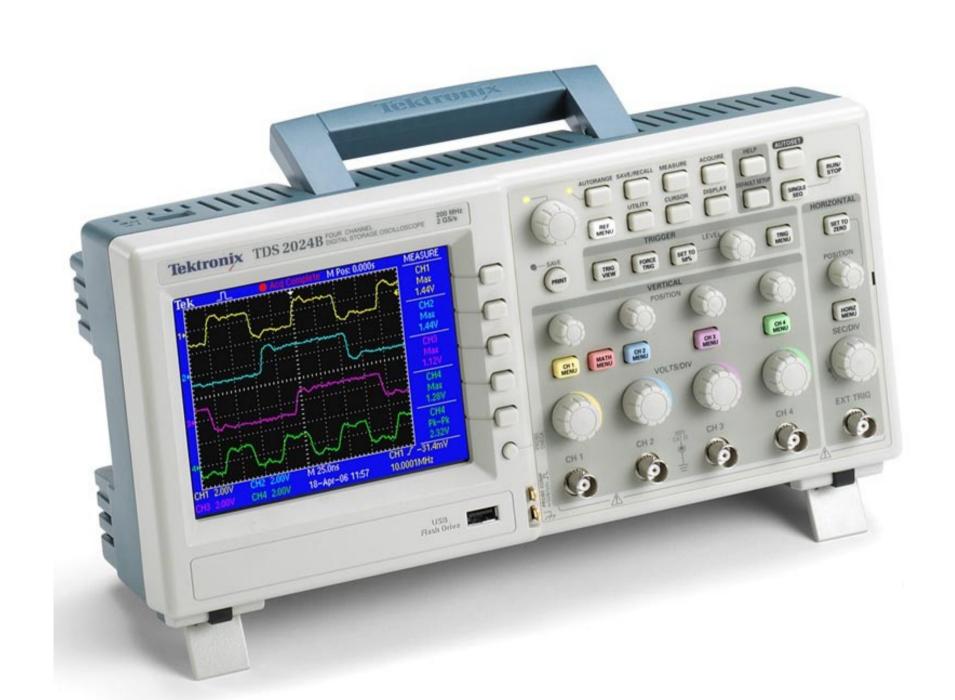
Halbleiter-Schaltungstechnik

Mit DVD

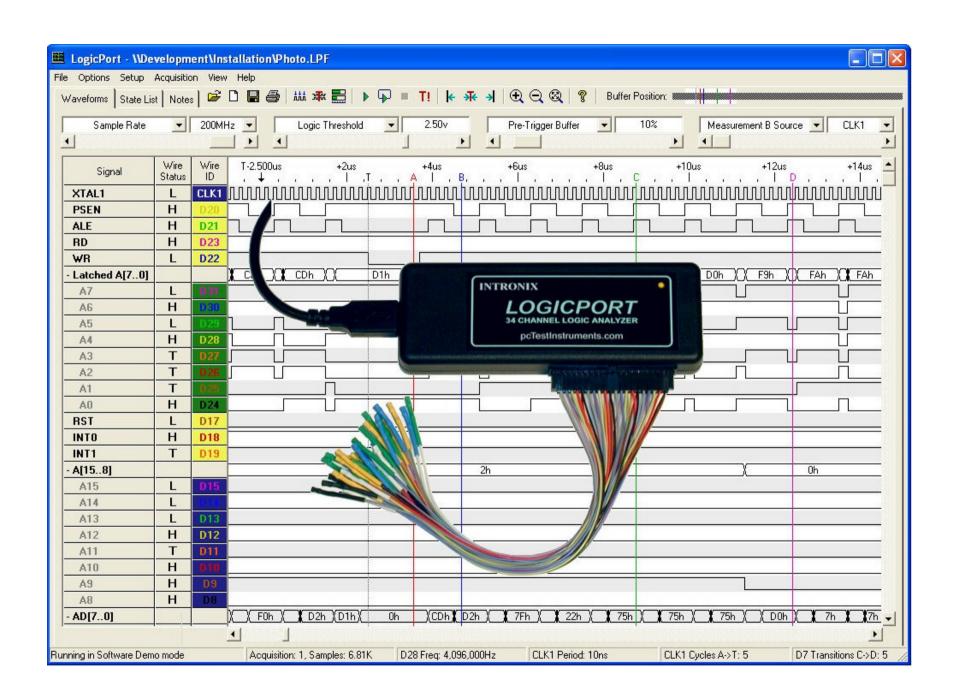
14. Auflage



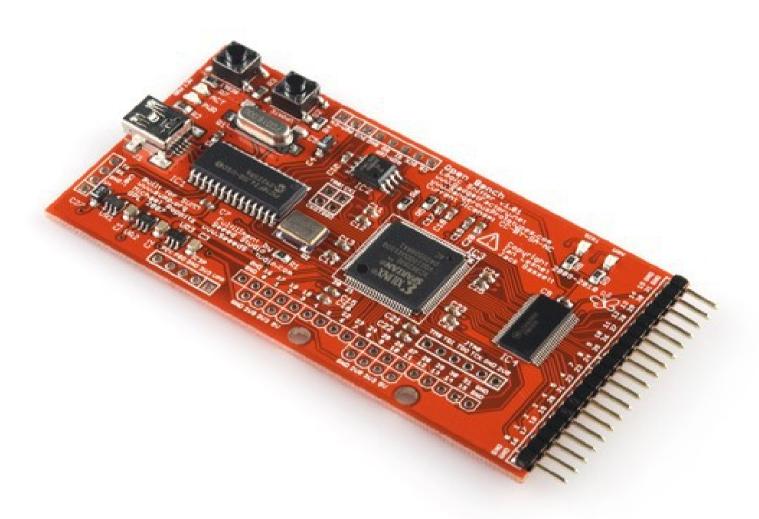










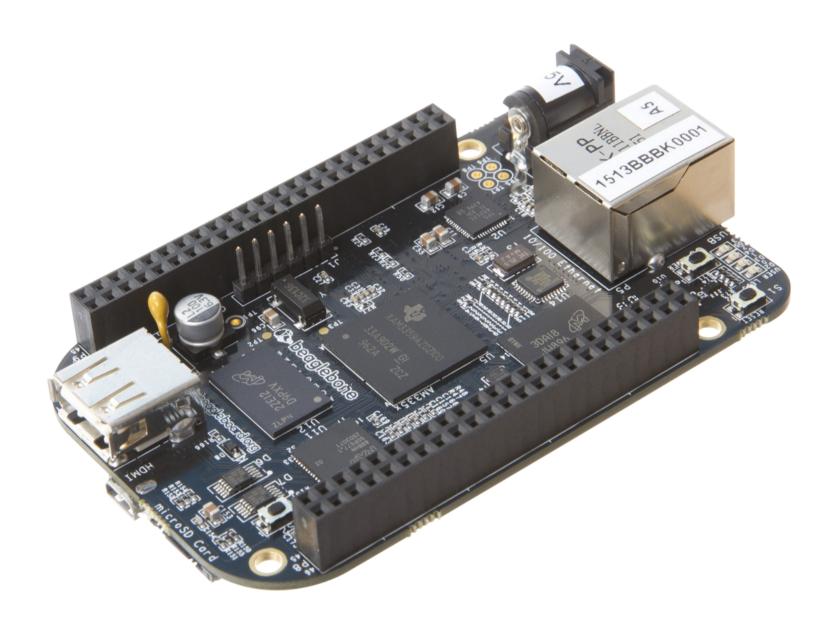














NMOS

6500 MICROPROCESSORS

THE 6500 MICROPROCESSOR FAMILY CONCEPT -

The 6500 Series Microprocessors represent the first totally software compatible microprocessor family. This family of products includes a range of software compatible microprocessors which provide a selection of addressable memory range, interrupt input options and on-chip clock oscillators and drivers. All of the microprocessors in the 6500 group are software compatible within the group and are bus compatible with the M6800 product offering.

The family includes six microprocessors with on-board clock oscillators and drivers and four microprocessors driven by external clocks. The on-chip clock versions are aimed at high performance, low cost applications where single phase inputs, crystal or RC inputs provide the time base. The external clock versions are geared for the multi processor system applications where maximum timing control is mandatory. All versions of the microprocessors are available in 1 MHz, 2 MHz ("A" suffix on product numbers), 3 MHz ("B" suffix on product numbers), and 4 MHz ("C" suffix on product numbers) maximum operating frequencies.

FEATURES OF THE 6500 FAMILY

- Single +5 volt supply
- N channel, silicon gate, depletion load technology
- Eight bit parallel processing
- 56 Instructions
- · Decimal and binary arithmetic
- Thirteen addressing modes
- True indexing capability
- Programmable stack pointer
- Variable length stack
- Interrupt capability
- Non-maskable interrupt
- Use with any type or speed memory

- 8 BIT Bi-directional Data Bus
- Addressable memory range of up to 65K
- "Ready" input (for single cycle execution)
- Direct memory access capability
- Bus compatible with M6800
- Choice of external or on-board clocks
- 1 MHz. 2 MHz. 3 MHz and 4 MHz operation
- On-the-chip clock options
 - · External single clock input
 - · RC time base input
- · Crystal time base input
- · Pipeline architecture

MEMBERS OF THE 6500 MICROPROCESSOR ORDER NUMBER **MXS 65SS** (CPU) FAMILY Microprocessors with On-Chip Clock Oscillator Model Addressable Memory R6502 65K Bytes FREQUENCY BANGE R6503 4K Bytes NO SUFFIX = 1 MHz R6504 8K Bytes A = 2 MHzR6505 4K Bytes B = 3 MHzR6506 4K Bytes C = 4 MHzR6507 8K Bytes Microprocessors with External Two Phase MODEL DESIGNATOR Clock Inputs XX = 02.03.04....15Model Addressable Memory PACKAGE DESIGNATOR R6512 65K Bytes C = CERAMICR6513 4K Bytes P = PLASTIC R6514 8 Bytes R6515 4K Bytes

