

## Idea QuickModeler™ Microcontroller Appliance Prototyping System

*The Ultimate Integrated Prototyping Environment for 8-bit Microprocessor-based System-on-chip Appliance Designs*

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Idea QuickModeler™ is an integrated prototyping environment that produces real-time virtual reality simulation of appliance features well before the actual system-on-chip hardware is manufactured. Idea QuickModeler™ benefits microcontroller (MCU) designers by allowing them to demonstrate new MCU features to system house customers before implementing them on real chips. This prototyping tool allows system houses to choose, write code, and send feedbacks on IC models so each MCU can be built to user's order, helping MCU design houses to attract and retain valued customers.

### FEATURES

- Real-time virtual reality simulation of MCU-based systems;
- Real-time simulation of timer interrupts;
- Visual simulation of LCDs, LEDs, and buttons;
- High-fidelity reproduction of speech and melody generated through on-chip DACs;
- Selection of popular CPU instruction sets;
- OEM support for custom MCU models;
- OEM support for custom circuits including ADC, DAC, LCD drivers, communication drivers, etc.;
- Integrated macro assembler and linker;
- Integration with script programming tools;
- Integrated source-level debugger;
- User-customizable memory architecture;
- Integrated memory inspector;
- Smart labelling for special function registers (SFR).

### SYSTEM REQUIREMENT

#### *PC Platform*

- Intel® Pentium® Processor 1.7 GHz;
- Microsoft® Windows® 2000 or ME;
- Always-on Internet connection;
- 256 MB RAM;
- 4 GB harddisk storage.

### SPECIFICATION

#### *Integrated Prototyping Environment*

- Virtual reality prototyper
- Architecture chooser
- Macro assembler
- Relocating linker
- Source code editor
- Register editor
- Memory inspector
- Breakpoint editor
- Source-level debugger
- Help system

#### *Real-time Simulation Engine*

- CPU (available for OEM)
- Memory subsystem
- MCU glue logic (available for OEM)
- Timer (available for OEM)
- Frequency divider (available for OEM)
- D/A converter
- I/O glue logic
- Virtual reality buttons
- Virtual reality speakers
- Virtual reality LEDs
- Virtual reality LCDs

### LICENSE INFORMATION

Idea QuickModeler™ is licensed in per-seat licenses as well as quarterly subscription licenses. Special distribution contracts are available.

### CONTACT

Visit us on the WWW at <http://www.Idea.com> or email [info@Idea.com](mailto:info@Idea.com) for further information.