

- Intelligent mobile Robot : IRoDi

| About | Case Study | Testimonial | Package |

About   

Introduction

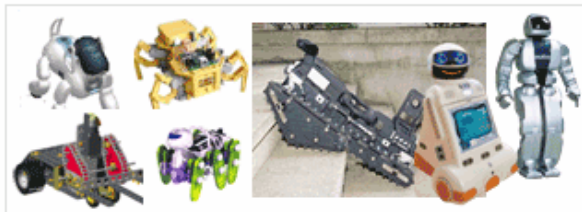
- User free robot design function
- Various library for intelligent robot
- Robot Programming (Flow Chart, C Language)
- Automation C Language creation
- Virtual robot environment arrangement and simulation
- Real MICOM communication and download
- Intelligent robot education contents

Process



Feature1- Robot Drawing

* Various Robot Library provide



- Commercialized robot library provide
- Builder Wizard provide for beginner

* Element Library



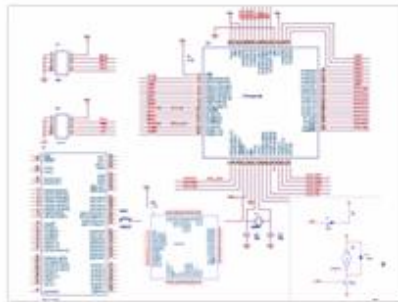
- Robot sensor element library provide
- Robot actuator library provide
- Logic circuit element library provide
- Gate chip design library provide

* 3D CAD DATA Import



- 3D Modeler provide
- STL DATA Direct import

Feature2 -Robot Control



Various MICOM library

- AVR Atmega 128 provide

Control circuit design tool provide

- Control circuit design and simulation
- Circuit operation check by simulation



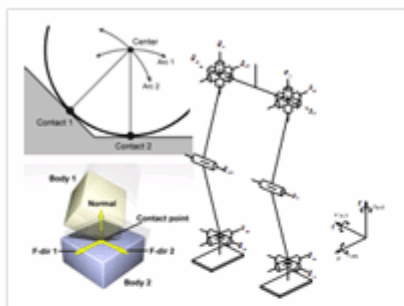
Easy and simple GUI programming

- Control program provide of flow chart type
- C code creation in flow chart

Making C Language program and compiler

- C Language Editor and compiler provide

Feature3 - Robot Environment Simulation



friction, collision, gravity analysis

- Extreme environment operation robot simulation by physical engine
- Robot operation simulation like presence

Kinetics analysis

- Position control Learning of Walking Robo



Environment library provide

- Various work space type
- Wizard for making environment

Environment setting

- Position control Learning of Walking Robo
- Obstacle environment setting

- ▣ Feature4 -Robot Verification and etc.



Program Verification

- MCU Monitoring function provide
- Various Memory Read/Write function provide

Interface with Real Robot

- ISP Download function provide
- JTAG communication and Download function

Circuit Verification

- Position control Learning of Walking Robo
- Circuit error part display function provide

Control by external operator

- Simulation robot control by external operator

- ▣ Mobile Robot

Training Robot for control process step by step composed easy and interest learning from basic to advanced

- MCU : AVR ATmega128
- What to study : step motor, RC motor, supersonic sensor, infrared touch sensor, LCD, Dot-Matrix,remote controller, switch, ISP download

Specification		
	ITEM	Digital Robot series
	MICOM	AVR Atmega128
	Motor	STEP,RC Servo Motor
	supersonic sensor	max3000mm, detail 30mm
	LCD	16*4 Line
	Dot Matrix	16*16, 3color
	External control	weight control
	Download	ISP, JTAG type
	weight	2Kg
	the maximum speed	150mm/sec
model DR12		