## ASDK CONTENTS

- WebChip™ Daughter Board Using Vendor's Microcontroller (MCU)

- WebChip™ Masterboard with varies of sensors and controls

- Gateway Software

- Client Application Demo

- Power Supply (AC/DC)

- AC/DC Adapter and RS-232 Communication Cable

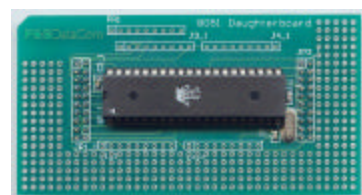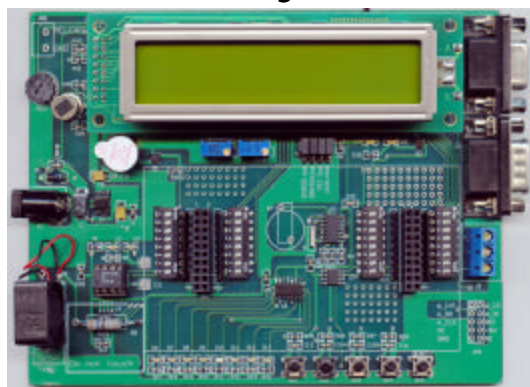- Product Datasheets, Users Guide, and Application Notes

## KEY FEATURES

- Accommodates 2x20 LCD Screen
- Does not require alteration of existing hardware
- User Communication Interface (UCI) allows for testing & debugging via customer's own emulator
- Text User interface (TUI) allows for out-of-the-box application development
- Supports all popular MCUs
- Supports RS232/RS485 and standard modem

## MCU FAMILIES SUPPORTED

- 8051

- ST ST62

- Microchip PIC16F7x

- Motorola MC68HC05

- Zilog Z8

# WebChip™ ASDK
# Advanced System Developer Kit



## PRODUCT DESCRIPTIONS

### WebChip ASDK PSMB001

P&S DataCom has created an Advanced System Developer Kit (ASDK) to assist developers in (1) familiarization with WebChip technology and in (2) designing-in WebChip - based applications more quickly and efficiently. The ASDK consists of a masterboard with a variety of sensor, control, and display mechanisms.  Users can choose from a number of optional MCU-specific daughterboards that are also available. In addition, the development kit includes gateway software and several application examples. These application examples can be followed to integrate user applications with a WebChip™, and to develop custom user interfaces. The Basic Client Application interface enables developers to immediately view microcontroller data after connecting and enabling their microcontroller with the WebChip™.  Hardware features include:

- Temperature Sensor
- Heater Element
- Fan/Cooling Element
- Upper and Lower Temperature Limits for AUTO Control Loop
- IR Sensor
- Trimpot for Analog Input
- Buzzer
- Open Analog Input Channel for User's Input
- MCUnet Cable for Direct Connect to User's MCU SPI Port



### WebChip Daughterboards

WebChip daughterboards support all of the most popular microcontroller architectures from the leading MCU vendors. Each daughterboard is socket-ready for implementation with the ASDK.

WebChip daughterboard options include:

- PSDA01A  Atmel 8051 Daughterboard

- PSDB01A  ST62E25C Daughterboard

- PSDC01A Microchip PIC16F73 Daughterboard

- PSDD01A Motorola MC68HC705 Daughterboard
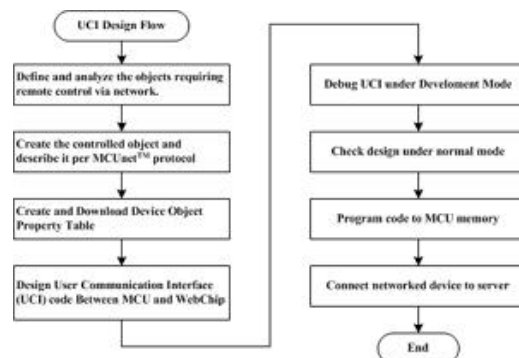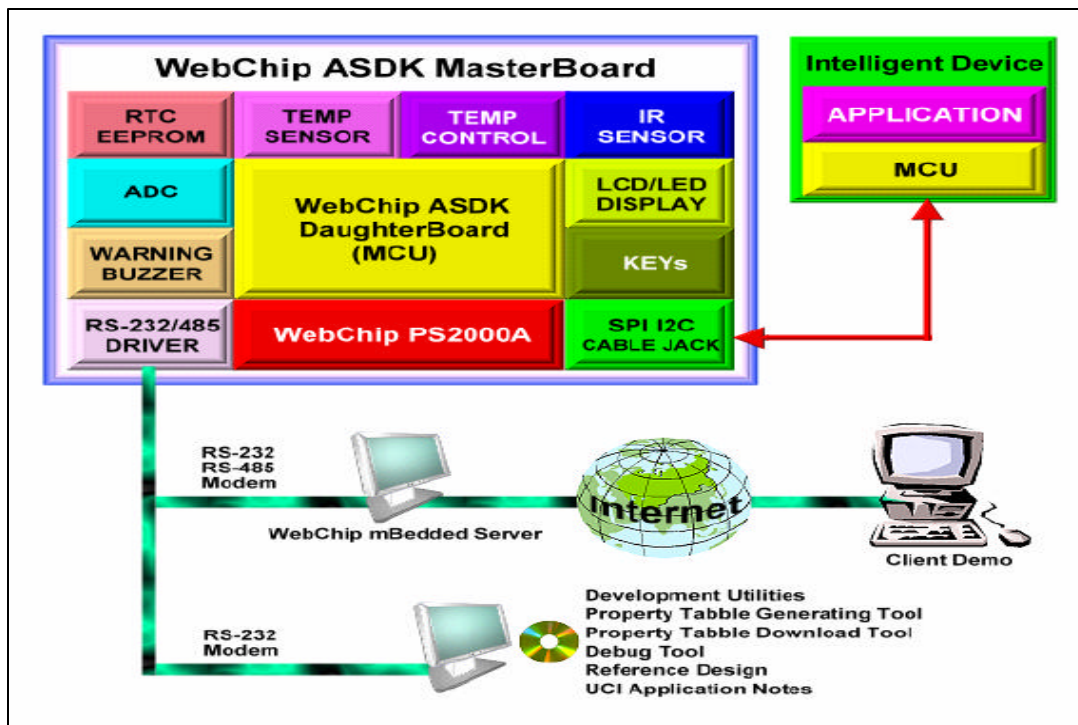
- PSDF01A Zilog Z86E13x  Daughterboard

A daughterboard is included with the ASDK. Other daughterboards can be ordered separately.



ASDK User Communication Interface Design Flow

# WebChip™ ASDK
# Advanced System Developer Kit



ASDK Block Diagram
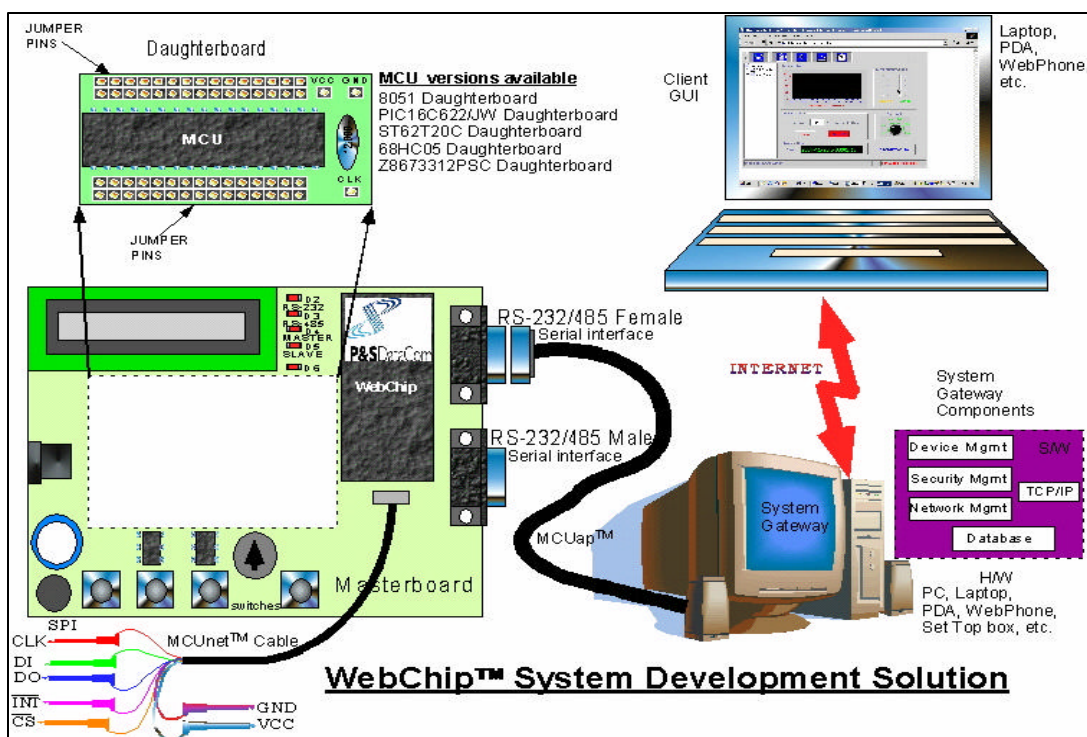


ASDK Development Environment