Product Information

DIVA Automation Ltd.

Innovation in Motion

SuprChip V©

Stand-alone Microcomputer

Original release, March 30, 2003

Description

The **SuprChip V**© is a high performance microcontroller with all required support elements for autonomous, stand-alone operation.

Features

- **72** I/O lines--many multi-purpose.
- Multi-purpose I/O includes:
- 8 analog inputs
- 2 analog outputs
- **6** external interrupts
- 2 multi-mode counter/timers
- All programmable direction
- External memory/data bus
- **50**+ commands
- Monitor/debugger
- **48 KB** ROM
- **1 KB** RAM
- Multi-drop RS-232 interface
- **2 KB** EEPROM storage
- Memory expansion available
- Low cost
- Easy to use
- Small size: 1.6" x 2.3"
- Low power: < **10 mA @ 5V**
- Lower power **sleep mode**
- **2 million** operations/sec.
- Real-time clock
- True **multi-tasking** operation
- User-define macro commands
- Auto-execute on power-up
- Embedded command interpreter
- Embedded development system
- Virtual-instrument control panel
- Floating-point **Basic** interpreter
- **No PC** required for operation

Applications

The SuprChip family has been used as the control computer for many product developments, including:

- Multi-axis motion control.
- Programmable power supplies.
- Web **tension controlle**r.
- RS-232/485 Protocol converter.
- Keyboard/display MMI
- Remote data collection, analysis
- and alarm
- Electro-forming process controller
- Bench test instrument.
- High voltage power supply.
- Fiber optic splicer.
- Ultra high resolution encoder (36 million/rev).
- **1024-axis** carpet tufter
- Automatic paper cutter
- Automatic test system
- Cable tester

Many other applications exist.

Standard Interfaces

Drivers are either built-in or available for these and other types of peripherals.

- Joysticks,
- LEDs, LCDs
- Printers
- Keyboards
- DC motors
- Stepper motors

Thumbwheels,

- Valves
- Opto-isolators
- Relays

Free Software

Two high-level languages are built in: **DiMAC** and **EHBASIC**. **DiMAC** is our proprietary high speed language for automation and motion control. The **EHBASIC** interpreter has full floating point math capability.

Free software source code is available in **VisualBASIC** for virtual instrument screens.

Drivers are available for use with **LabView** at no extra cost.

Ease of Use

All signals and connections required for operation are contained in a single IDC-type header. Power and RS-232 connections are also available in additional dedicated connectors.

Actual size

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Fitting your budget and your needs with precision. +1-800-984-DIVA