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The World's Leading Device Programmers

## Dataman S6

The Dataman S6 is a USB powered universal 48-pin programmer with compact dimensions and minimal weight. The S6 is built to meet the demands of development labs and field engineers for universal programming.

Supporting over 15,000 (April 2015) devices with new support being added monthly, the Dataman S6 can program without the need for family-specific modules, giving you the freedom to choose the optimal device for your design.



### Hardware

#### General

- FPGA based totally reconfigurable 48 powerful TTL pindrivers provide H/L/pull\_up/pull\_down and read capability for each pin of socket. Advanced pindrivers incorporate high-quality high-speed circuitry to deliver signals without overshoot or ground bounce for all supported devices. Pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrows advanced low-voltage devices.
- The programmer performs device insertion and contact tests before programming each device. These capabilities, supported by overcurrent protection and signature-byte check help prevent chip damage due to operator error.
- The selftest capability allows diagnostics included in the software to thoroughly check the health of the programmer.
- Various socket converters are available to handle device in PLCC, JLCC, SDIP, SOP, VSOP, SSOP, TSOP, TSSOP, QFP, PQFP, TQFP, VQFP, BGA, uBGA, SON, WSON, QFN (MLF) and other packages

#### Programmer Specification

##### Base Unit (DAC)

- USB 2.0 high-speed compatible port
- Logic signal level 1.5V..6.0V/10mV
- IOL, IOH current 10mA
- Logic signal frequency 75MHz (3..5V), 60MHz (2.5V), 45MHz (1.8V), 25MHz (1.5V)
- Signal skew  $\leq \pm 2.5nS$  (3..5V)
- Clock frequency 0Hz..75MHz
- VDD, VIO level 1.5V..6.5V/10mV
- IDD, IIO frequency 400mA
- VPP, VHH level 1.5V..15.5V/20mV
- IPP, IHH frequency 150mA
- CE certified

##### ZIF Socket

- 48-pin DIL ZIF (Zero Insertion Force) socket accepts both 300/600 mil devices up to 48-pin
- Pindrivers 48 universal

### Features...

- USB powered - no additional power supply is required
- Over 15,000 (April 2015) devices supported with new devices added monthly
- Intelligent pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrows advanced low-voltage devices
- Hi-speed USB 2.0 connectivity
- Easy to use software compatible with the latest operating systems including Windows 8
- Comprehensive 3 years parts and labour warranty
- Free life-time software updates

## Software

### User Interface

- Programmer is driven by an easy-to-use control program compatible with the latest operating systems. Selecting of device is performed by its class, by manufacturer or simply by typing a fragment of vendor name and/or part number.
- Standard device-related commands (read, blank check, program, verify, erase) are enhanced by test functions (insertion test, signature-byte check) and additional special functions (auto run - programming starts immediately once chip inserted into socket).
- User can create and save a project file which contains device selection, buffer data and all the programming set-up options. This project file can then be loaded for future use reducing set-up times.
- Binary, Intel HEX,TEK HEX and Motorola S-record (HEX) formats are supported. Automatic file format detection and conversion during loading of file.
- Multiple S6 programmers can be connected to the same PC (via USB port) achieving an extremely powerful multi-programming system, supporting as many devices as a single S6 programmer and without a noticeable decrease in programming speed. Concurrent multi-programming is also supported allowing each programmer to work independently increasing throughput.
- Keeping your programmer software up to date can be a costly business with some programmers. Dataman offers completely FREE software updates whenever you need them. The latest software is always available from our website.

The Dataman S6 supports over 15,000 (April 2015) of the most popular devices in use today - with new devices being added monthly.

### Programmer (ZIF Socket)

EPROM, EEPROM, Flash EPROM, Serial E(EP)ROM, Configuration (EE)PROM, NV RAM, Microcontrollers

### Programming Speed (program/verify)

Microchip 24FC128	00:06.4
ST M25P20	00:02.8
Intel QB25F640S33	00:24.0
SST SST39VF016Q	00:11.1
AMD Am29DL640G	00:28.0
Samsung K8P6415UQB	00:10.8
Atmel AT89C51RD2	00:14.4

## Package Includes

- **Dataman S6 Compact USB Programmer**  
Dimensions: 136 x 90 x 20mm (5.3 x 3.5 x 0.7inches) (excluding ZIF socket)  
Weight: 0.3Kg (0.66lbs)  
Operating voltage: 5V DC  
Power consumption: max. 4W active
- Moulded USB Y Cable
- Carry Case
- User Manual
- Software
- Optional range of adapters and socket converters also available

## Warranty and Support

- 30 day money back guarantee\* - If you don't like it, send it back.
- Three year guarantee - Three years parts and labour warranty, on the S6 compact device programmer.
- Life-Time Technical Support - S6 technical support is available free via our website and telephone helpdesk for life.
- Life-Time Software Updates - S6 software updates are available free via our website for life.

\*Applies to orders from UK/US offices only



# DATAMAN

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