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 18,000 (July 2025) 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 the socket. Advanced pindrivers incorporate high-quality high-speed circuitry to deliver signals without overshoot or ground bounce for all supported devices. Pindrivers 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.
- Wide range of adapters are available to handle devices 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)

- Power and connection status LED
- USB 2.0 high-speed compatible port
- Protection against surge and ESD on power supply input
- 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 <±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 socket accepts both 300/600 mil devices up to 48-pin
- 48 x universal pindrivers

Features...

- Compact design optimised for field use
- USB powered - no additional power supply is required
- Over 18,000 (July 2025) devices supported with new devices added monthly
- Intelligent pindrivers 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 11
- Comprehensive 3 year parts and labour warranty

Free Life-Time Technical Support

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 a device is performed by its class, by manufacturer or simply by typing a fragment of the 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 after chip is inserted).
- 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, Tektronix HEX and Motorola S-record HEX formats are supported. Automatic file format detection and conversion during loading of file.
- Multiple S6 programmers can be operated from the same PC creating a high-volume production environment with all the benefits of the standard S6. Up to eight S6 programmers can be connected simultaneously providing a highly scalable gang programming system.

Device Support

The Dataman S6 supports over 18,000 (July 2025) of the most popular devices in use today - with new devices being added monthly. Dataman S6 coverage includes the following device types:

Programmer (ZIF Socket)

Serial NAND Flash, Serial Flash, Parallel NOR Flash, EPROM, EEPROM, NV RAM, Serial E(E)PROM, PLD, CPLD, 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
- 3 year guarantee - 3 year parts and labour warranty, on the S6 compact 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 Dataman UK/US offices only

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