The 848XP is built to meet the demands of high volume production programming with minimal operator effort. Concurrent and semi-concurrent programming options combine with device insertion tests and a user friendly interface to produce higher programming yields and reduced failure rates.

The Dataman 848XP is a gang programmer which operates using the USB or parallel port of your PC. It features 8 fully isolated 48-pin ZIF sockets, intelligent hardware and low voltage support.

Technological Innovation and Performance Leadership

Universal Adaptor for Flash chips
The Dataman 848XP is designed to meet your future needs for high density flash chips, utilizing the PC's resources; it supports memory devices from 128K bit to Gigabit without the need for hardware upgrades. The Dataman 848XP also provides 48-pin TSOP, 44-pin PSOP, 40-pin TSOP, and 32-pin TSOP universal adapters for all the flash chips eliminating the need to purchase multiple adapters and further reducing costs.

Unbeatable Speed Through Semi-Concurrent Programming Technology
The Dataman 848XP's on-board intelligence reduces the system's overhead to a minimum. It can program 8 x 8Mb flash chips (Intel 28F800B3) within 45 seconds; an experienced operator can program thousands of high density devices per day. In addition, with the semi-concurrent programming capability, you can divide the 8 sockets into two groups of four allowing you to program one group while simultaneously removing or inserting devices from the other group.

Programming Speed Test Report – Flash Intel 28FXXX

	2M	4M	8M	16M
Blank Check	3.9 sec	7.1 sec	13.8 sec	27.2 sec
Program	11.6 sec	22.6 sec	42.7 sec	85.0 sec
Verify	8.5 sec	16.5 sec	32.4 sec	64.4 sec
Total	24.0 sec	46.2 sec	88.9 sec	176.6 sec

- 8 x Independent fully isolated 48-pin ZIF sockets
- Low voltage support
- Concurrent/semi-concurrent mass production modes
- Connects via USB 1.1/2.0 or parallel port
- Auto switching 110/240V
- Project file save and load functions
- 3 year warranty
- Free software updates via Dataman website

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Fully Isolated ZIF Socket
Each socket's address, data bus, control lines, power supply and programming voltage are isolated (> 1M ohm). Additionally, sockets have independent built-in Vcc and Vpp current limit circuitry meaning a defective device will not affect the programming integrity of other devices.

Devices Insertion and Continuity Checks
The Dataman 848XP performs device insertion and continuity checks prior to programming each device. It can detect poor pin contact and device insertion errors including position and pin number mismatch. This function prevents damage to expensive devices due to operator error.

Auto-Sensing and Self Programming
The Dataman 848XP has patented technology in its design; once the chips are inserted into the ZIF sockets, it automatically checks for poor pin contact and device insertion errors. If a problem is found and not corrected within the adjustable time period, Dataman 848XP will shutdown the socket and continue programming the rest of devices without any further input from the operator.

Target Quantity and Maximum Failure Rate
The Dataman 848XP software allows for the user to set a programming target quantity and acceptable maximum failure rate. If the failure rate is exceeded, the software generates a warning message on the screen.

Independent Module Design
The Dataman 848XP is designed to have minimum down time. The eight sockets are divided into four identical independent modules, each containing two sockets. If a module fails, the Dataman 848XP can still operate the other modules allowing production to continue without having to stop for repair. Spare module kits are available.

Multiprogramming Support
Multiple 848XP programmers can be connected and controlled through a single PC (via USB port) achieving an extremely powerful multiprogramming system without any decrease in programming speed.

Project File Save and Load
Users can save a project file which contains the device selection, buffer data and all programming option settings. The project file can be loaded at any time for future use. Engineer's design and settings can easily be passed to production without interference.

Variable VCC with One or Two-Pass Verification
The Dataman 848XP allows you to set the verifying voltage, e.g.,Vcc +/- 5%, Vcc+/- 10%, once devices are programmed. Vcc voltage can be set between 2 and 7.5 Volts ensuring chips have been programmed correctly and reducing data retention problems.

Current Limit and Pin Continuity Checks
The Dataman 848XP has additional safety features such as a built-in current limit and pin continuity check function. This prevents damage from faulty chips during the programming cycle.

Low Voltage Chip Support
The Dataman 848XP supports 2.7V ~ 5.0V logic level input/output, and it can supply 2.0V~21V analog voltage (such as VCC).

Non-DIL Device Support Through Versatile Converters
The Dataman 848XP's universal pin driver capability lets it program all 48-pin DIL devices, including single-chip Micro-controllers, without adapters. However due to the number of different packages beside DIL, we have developed over 100 different adapters to support these special-package devices.

Free Software Updates via Dataman Website
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.

Specifications

Socket and Pin Driver
- 8 fully isolated 48 pin ZIF socket with receptacle, over 1 M ohm resistance between each socket
- Four DACs for Vcc, Vpp1, Vpp2 and Vpp3 with 8bit resolution
- Vcc range 2V to 7.5V, resolution 50mV
- Vpp1, 2 and 3 range 5V to 16V resolution 100mV
- Over current protect on all voltage source
- Logic level 5V to 2.7V programmable by software

Device Support
The Dataman 848XP supports over 4,000 of the most popular devices in use today – with devices being added every day. Dataman 848XP coverage includes the following device types:
- EPROM: 27xxx series 128K to 64M with 8/16 bit data width
- FLASH: NOR, NAND, AND, DI-NOR, EEPROM 256K to Gigabit flash covering all major chip manufactures
- Microprocessor: Intel 87C5x, ATMEL 89C5x, Microchip PIC16Cxx, Motorola 68HC705C8/9 and 68HC705P6/9A
- FPGA configurable PROM: Altera EPC 1xx, ATMEL 17Cxx

Device Operations
Read, blank check, insertion/contact check, verify, checksum, erase chip, program, memory protect, edit buffer, configuration, load file, save file, project file load/save

File Format
- Binary
- Intel HEX
- Intel extended HEX
- Motorola S
- HP64000ABS
- TEK HEX
- Straight HEX

FREE vacuum pickup kit

Package Includes
- Dataman 848XP Gang Production Programmer
  Dimensions: 370x340x100 mm (14.6x13.4x3.9 inches)
  Weight: 7.5Kg (16.5lbs)
  Auto-switching Power Supply
  Input: 100 to 240 VAC
  Power consumption : 65 W
- FREE Vacuum Pick Up Kit
- Manual
- Drivers/Software (Compatible with Windows 9x, ME, NT, 2000 and XP)
- Moulded USB and Parallel Cable
- Optional range of adaptors and socket convertors 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 848XP universal programmer
- Life-Time Technical Support – 848XP technical support is available free via our website and telephone helpdesk for life.
- Life-Time Software Updates – 848XP software updates are available free via our website for life.

*Applies to orders from UK/US office only

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