



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 Adapter for Flash Devices

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 |

- Over 14,000 (April 2015) devices supported with new devices added monthly
- 8 x Independent fully isolated 48-pin ZIF sockets
- Hi-speed USB 2.0 connectivity
- Easy to use software with automatic file format detection and conversion
- Comprehensive 3 years parts and labour warranty
- 3 years free software updates

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 updates for three years and 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 14,000 (April 2015) 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

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: 65W
- FREE Vacuum Pick Up Kit
- User Manual
- Software
- Moulded USB Cable
- 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 848XP universal programmer
- Life-time technical support – 848XP technical support is available free via our website and telephone helpdesk for life.
- Three year free software updates – 848XP software updates are available free for three years via our website.

*Applies to orders from UK/US office only



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