

2700

Concurrent Programming System®



2700 Concurrent Programming System®

The 2700 Concurrent Programming System® is the industry standard for programming throughput and speed, device support and high uptime. It combines the industry's fastest programming technology, 0.24s/Mb, BP Micro's new FX4™ socket modules and our Concurrent Programming System®. This powerful combination, unmatched in the industry, means higher throughput, reduced cost per device and faster turnarounds. What this means to you: higher profits for your business.



The 2700 is designed specifically for today's highest density devices and their longer programming times, including Flash. It features the industry's fastest programming technology that programs a 64Mb device in just 15s*. The 2700 also uses BP Micro's new FX4™ socket modules. FX4™ socket modules program up to four devices simultaneously per site. With 2, 4, or 6 programming sites, the 2700 can program up to 24 devices at the same time and allows you to take advantage up to four times the throughput.

- **Supports over 18,000 devices with very low voltage devices down to 1.5V (Vdd) including, but not limited to, EPROM, EEPROM, Flash EPROM, Microcontrollers, PLD, CPLD, FPGA and antifuse FGAs**
- **FX4™ socket modules include 3 separate LED's per socket and allow the 2700 to program up to 24 devices simultaneously on a 6-site model**
- **Compatible with all existing socket modules, standard and automated**
- **Patented solution to guard against passing blank parts—available only from BP Micro**
- **Supports all device packages, including but not limited to, DIP, SDIP, PLCC, TSOP, SSOP, PCMCIA, SOIC, LCC, QFP, PQFP, PGA, SIMM, CSP, BGA, µBGA, TQFP and TSSOP**
- **Ideal for low to mid-volume production**
- **7th Generation of a robust and proven platform originally released in 1994**

*ST Microelectronics™ M28W640CB, program only

General

Power:	90-260VAC, 47-63 Hz., 1.2 KVA, IEC inlet connector for worldwide use
Dimensions and Masses:	
2-site model	21.55" (547mm) x 8.65" (220mm) x 4.68" (119mm), 12.2 lbs. (5.5 kg)
4-site model	21.55" (547mm) x 16.10" (409mm) x 4.68" (119mm), 21.5 lbs. (9.6 kg)
6-site model	31.35" (796mm) x 16.10" (409mm) x 4.68" (119mm), 31.5 lbs. (14.3 kg)

Software

Required:	BPWin
File Type:	binary, Intel, JEDEC, Motorola, POF, RAM, straight hex, hex-space, Tekhex, Extended Tekhex, ASCII hex, Formatted Binary (.DIO), AFM, OMF, LOF, MER, and others Device Commands: blank, check sum, compare, options, program, test, verify
Features:	data editor, revision history, session logging, on-line help, device and algorithm information

Hardware

Architecture:	Concurrent Programming System
Sites:	2, 4, or 6 per chassis; multiple chassis may be daisy chained
Calibration:	annual, may be performed on site
Diagnostics:	pin continuity test, RAM, ROM, CPU, pin drivers, power supply, communications, cables, calibration, timing, ADC, DAC, interconnects
Memory:	64MB per site
User Interface:	Pass, Fail, Active, Start LEDs and Start switch on each site; PC display shows systems status at a glance; auto-start mode automatically begins programming when device is inserted
PC System Requirements:	Microsoft Windows 95 or above

Standard Accessories Included



PO Box 7054, 5980 AB
Panningen, The Netherlands
Tel: +31 77 307 8438
info@logic.nl www.logic.nl



software on CD-ROM
user manual on CD-ROM
power cable
data cable
1-year hardware warranty
1-year software support

PIN Drivers

Quantity:	240-pins standard
Slew rate:	0.001 to 2500V/ μ s
Vpp Range:	0-25V in 25mV steps
Ipp Range:	0-70mA continuous, 250mA peak
Vcc Range:	0-12V
Icc Range:	0-1A, 12 μ A resolution
Very low voltage:	to 1.5V (Vdd)
Rise Time:	800ps
Overshoot:	none
Clocks:	continuously variable 1 MHz to 30 MHz
Protection:	overcurrent shutdown, power failure shutdown
Independence:	pin drivers and waveform generators are fully independent and concurrent on each site

Features

File Loading:	automatic file type identification; no download time because programmer is PC controlled; supports Intel, JEDEC, Motorola S-record, POF, straight hex, hex-space, Tekhex, and other file formats
Device Selection:	intelligent device selector allows you to type as little or as much of the part number as you like then choose from a list of devices matching your description
Devices Supported:	including, but not limited to, Antifuse, Low Voltage, PROM, EPROM, EEPROM, Flash EEPROM, Microcontrollers, SPLD, CPLD, FPGA
Continuity Test:	each pin, including Vcc, ground, and signal pins, may be tested before every programming operation
Protection:	overcurrent shutdown; power failure shutdown; ESD protection, reverse insertion, banana jack for ESD wrist straps
Options:	available Socket Modules including, but not limited to, Universal PLCC, standard PLCC, PGA, CSP, BGA, μ BGA, SOIC, QFP, TSOP, LCC, SDIP, PCMCIA, SIMM—JobMaster™ software, and Advanced Feature Software
Programming Yield:	assured by independent universal pin drivers on each socket, short distance from pin drivers to device, and accuracy of waveforms
Algorithms:	all algorithms are manufacturer approved or certified (if required)—BP Microsystems has an excellent record of being first to provide certified algorithms for new devices
Algorithm Updates:	algorithm changes and updates are available, additional algorithms available by subscription after the first year