



# PSDPRO

## Parallel Port Programmer for ST's Programmable System Device (PSD) Products

DATA BRIEFING

### FEATURES SUMMARY

- LOW COST PARALLEL PORT PROGRAMMER FOR ST'S ENTIRE PSD PRODUCT LINE
- PROGRAMS ALL PSD DEVICES
- HIGH SPEED PROGRAMMING
- CONTROLLED VIA PC RUNNING ST'S PSDSOFT EXPRESS SOFTWARE
- INTERCHANGEABLE ADAPTER SOCKETS FOR DIFFERENT PACKAGES/PRODUCT TYPES (ordered separately, see Table 2 for a complete list)
- SIZE: 9" x 6" x 3"

Figure 1. PSD Programmer

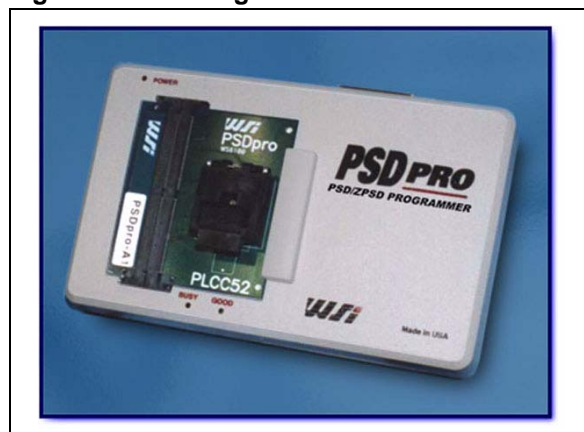


Table 1. Available Models

Programmer	Voltage	Description
PSDpro	110	PSDpro Programmer with 110V Power Supply
PSDpro	220	PSDpro Programmer with 220V Power Supply

Table 2. Socket Adapters

Part Number	Pins	Socket	Family	Description
WS6100	52	PLCC	PSD	Socket Adapter for PSD8XX in 52-pin PLCC
WS6101	64	TQFP	FPSD	Socket Adapter for PSD8XX in 64-pin TQFP
WS6102	44	PLCC	PSD	Socket Adapter for PSD2XX and PSD3XX in a 44-pin PLCC
WS6103	44	TQFP	PSD	Socket Adapter for PSD2XX and PSD3XX in a 44-pin TQFP
WS6104	44	PQFP	PSD	Socket Adapter for PSD2XX and PSD3XX in a 44-pin PQFP
WS6105	80	TQFP	PSD	Socket Adapter for PSD4XX and PSD5XX in a 80-pin TQFP
WS6106	68	PLCC	PSD	Socket Adapter for PSD4XX and PSD5XX in a 68-pin PLCC
WS6107	52	PQFP	FPSD	Socket Adapter for PSD8XX in a 52-pin PQFP
WS6108	80	TQFP	FPSD	Socket Adapter for PSD8XX and PSD4000 in a 80-pin TQFP

**TABLE OF CONTENTS**

**FEATURES SUMMARY** ..... 1

    Figure 1. PSD Programmer ..... 1

    Table 1. Available Models ..... 1

    Table 2. Socket Adapters ..... 1

**SUMMARY DESCRIPTION**..... 3

**SYSTEM REQUIREMENTS** ..... 3

**Software** ..... 3

**Hardware** ..... 3

**Parts List:**..... 3

**INSTALLATION INSTRUCTIONS**..... 3

**PART NUMBERING** ..... 4

    Table 3. Ordering Information Scheme ..... 4

    Table 4. Socket Adapters by Package Type ..... 4

**REVISION HISTORY**..... 5

    Table 5. Document Revision History ..... 5

### SUMMARY DESCRIPTION

The PSDpro is a high performance engineering programmer designed to program ST's entire family of PSD products. Through the use of interchangeable sockets, the PSDpro can be configured to program any of ST's OTP or Flash-based PSD Products. It is controlled using ST's PSDsoft Express software operating in the IBM-PC compatible Windows 95/98/2000 or NT/XP environment. The PSDpro enables quick program-

ming, greatly accelerating the system design process.

The PSDpro is easy to use. The parallel port interface to the host computer eliminates problems with bus addresses, interrupt assignments, or software installation. PSDpro is powered by an external DC power supply

### SYSTEM REQUIREMENTS

#### Software

Must be used with PSDsoft Express software (version 5.02 ES or later)

#### Hardware

- PC Compatible Windows 95/98/2000 or NT/XP
- 32MB of RAM
- Hard-Disk space: approximately 30MB
- CD-ROM Drive

#### Parts List:

- Parallel cable
- Power supply adapter (110V or 220V)
- ST Family Module
  - small edge connector PC board installed atop the programmer prior to shipment
- PSDpro Programmer

### INSTALLATION INSTRUCTIONS

1. Connect the parallel cable to the PC and the PSDpro Programmer.
2. Make sure the ST Family module and the Socket Adaptor are firmly seated.
3. Connect the power supply.
4. Go to the main screen of PSDsoft Express and click on the "STMicroelectronics Conventional Programmers" block or Select "STMicroelectronics Conventional Programmers" from the PSDsoft menu.
5. Under the "Options" menu select "Hardware Setup."

Configure for PSDpro and choose "Auto Select" or "Manual Select" for the parallel port:

- Auto Select = PSDsoft selects the port
- Manual Select = User selects the port

6. Select OK.
7. If there are no error messages, then the setup and auto check procedure is completed.
8. If an error message appears, check all connections and retry by repeating the installation procedure or by merely selecting the "H Test" (Hardware Test) icon on the main screen.

**Note:** Repeat this procedure until there is no longer an error message. If you cannot resolve the conflict, contact ST technical support for assistance via Internet Mail at [apps.psd@st.com](mailto:apps.psd@st.com).

The programming instructions are included in the PSDsoft Express User Manual downloadable from the ST website, [www.st.com/psm](http://www.st.com/psm). Please refer to this manual for programming assistance.

## PSDPRO - PARALLEL PORT PROGRAMMER

### PART NUMBERING

**Table 3. Ordering Information Scheme**

Example: PSDpro 110

**Part Type**

PSDpro = Development Kit

**Power Supply**

110 = 110V

220 = 220V

For a list of available options (e.g., speed, package) or for further information on any aspect of this device, please contact your nearest ST Sales Office.

**Table 4. Socket Adapters by Package Type**

	Pkg Code	Pins	WS6100	WS6101	WS6102	WS6103	WS6104	WS6105	WS6106	WS6107	WS6108
PSD3XX	J	44			✓						
	L	44			✓						
	M	44					✓				
	U	44				✓					
PSD4XX/ PSD5XX	J	68							✓		
	L	68							✓		
	U	80						✓			
PSD8XX	J	52	✓								
	U	64		✓							
PSD8XX	M	52								✓	
PSD8XX/ PSD4000	U	80									✓

## REVISION HISTORY

Table 5. Document Revision History

Date	Version	Description
1-Jun-04	1.0	First Edition

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