

## XELTEK SUPERPRO UNIVERSAL PROGRAMMER COMPARISON

August 2009

Model	<a href="#">SuperPro 5000</a>	<a href="#">SuperPro 501S</a>	<a href="#">SuperPro 500P</a>	<a href="#">SuperPro 3000U</a>	<a href="#">SuperPro 3000U-100</a>	<a href="#">SuperPro 580U</a>	<a href="#">SuperPro 280U</a>	<a href="#">SuperPro Z</a>
<b>Number of devices supported</b>	48,000+	22,000+ <sup>4</sup>	22,000+ <sup>4</sup>	22,000+ <sup>4</sup>	47,000+	34,000+	24,000+	3,469
<b>Number of manufacturers supported</b>	164	141	141	201	201	185	160	71
<b>Number of pins available</b>	144	48	48	48	100 ( <sup>3</sup> )	48	48	40
<b>Programming Speed</b>	43.4S 64 Mb EEPROM QB25F640S33B60			96.6S 64 Mb EEPROM QB25F640S33B60			N/A	
Program + Verify	108S 1Gb NAND Flash							
<b>PC Interface</b>	USB 2.0 (backward compatible)			USB				Parallel
<b>Stand-Alone Mode</b>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	Yes <sup>1</sup>	Yes <sup>1</sup>	No	No	No
<b>Free device updates via web</b>	Weekly <sup>2</sup>	Weekly <sup>2</sup>	Weekly <sup>2</sup>	Weekly <sup>2</sup>	Weekly <sup>2</sup>	Monthly	Monthly	None
<b>Devices added on demand</b>	Yes <sup>2</sup>	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	No	No	No
<b>Supported O/S</b>	Windows 98SE/ Me/ NT/ 2000/ XP/ 2003/ Vista x32-x64			Windows 98SE/ Me/ NT/ 2000/ XP/ 2003/ Vista x32				Win 2000/NT 95/98/Me/XP
<b>Memory slot for data storage</b>	Yes (Compact Flash Card)	Yes (Compact Flash Card)	No	Yes (Compact Flash Card)	Yes (Compact Flash Card)	No	No	No
<b>RoHS and CE compliance</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Price \$AUD ex GST</b>	\$2,485.00	\$1,285.00	\$1,095.00	\$1,525.00	\$1,835.00	\$895.00	\$735.00	\$355.00

1) Stand-alone operation:

- Repeat programming and verification is performed without a PC attached. The programmer is completely self-contained with add-on memory (option), keyboard, and LCD display for volume production operation.
- Does not require an operator who has to have knowledge of operating a PC thus saving on the cost of the operator.
- Saves cost of a PC.
- Data integrity is insured, as there is no chance that an operator may corrupt data in the PC.
- Data security is insured, as the plug-in compact flash card may be removed and stored away at end of each day.

- Seamless transition from engineering to production is ensured, as the project file is generated in engineering, downloaded onto a compact flash card and transferred to manufacturing.
- Compact Flash card (512MB) needed for Stand-alone mode operation.

2) Xeltek updates new devices onto Superpro5000 and SuperPro 3000U regularly and also upon customer request. Device update is free of charge during the warranty period of the programmer purchased. Xeltek does not have free device update service on other programmers. If you are interested in the new device update service please purchase SuperPro5000 or SuperPro 3000U programmer.

3) Number of pin-drivers can be increased via use of PEP3000 module thus enabling universal socket adapters with large pin-count to be used. For example, this allows one 84pin PLCC adapter to be useable for all chips of the same package type.

4) These are new models and more devices are being added quickly.

# XELTEK SUPERPRO PRODUCTION/GANG PROGRAMMER COMPARISON

August 2009

Model	<a href="#">SuperPro 5004GP</a>	<a href="#">SuperPro 5000 Cluster<sup>2</sup></a>	<a href="#">SuperPro 501S Cluster<sup>2</sup></a>	<a href="#">SuperPro 9000U</a>	<a href="#">SuperPro 3000U Cluster<sup>2</sup></a>
<b>Number of devices supported</b>	48,000+	48,000+	22,000+	41,000+	47,000+
<b>Number of manufacturers supported</b>	163	163	141	196	201
<b>Number of Sockets</b>	4	N	N	4	N
<b>Number of pins available</b>	144	144	48	48	48/100
<b>Programming Speed</b> Program & Verify	43.4S 64 Mb EEPROM (QB25F640S33B60)			96.6S 64 Mb EEPROM (QB25F640S33B60)	
<b>PC Interface</b>	USB 2.0			USB	
<b>Stand-Alone Mode</b>	Yes <sup>1</sup>				
<b>Free device updates via web</b>	Weekly <sup>4</sup>			Monthly	Weekly <sup>4</sup>
<b>Supported O/S</b>	Windows 98/Me/NT/2000/XP/2003/ /Vista x32-x64			Windows 98/Me/NT/2000/XP x32/2003/ /Vista x32	
<b>Memory slot for data storage</b>	Yes (Compact Flash Card)				
<b>Asynchronous mode</b>	Yes <sup>3</sup>				
<b>Number of socket adapters available</b>	300+	300+	500+	600+	600+
<b>RoHS and CE compliance</b>	Yes	Yes	Yes	Yes	Yes
<b>Price \$AUD</b> ex GST	\$7,725.00	\$2,485 x N	\$1,285 x N	\$4,555.00	\$1,525 x N

### 1) Stand-alone operation:

Repeat programming and verification is performed without a PC attached. The programmer is completely self-contained with add-on memory (option), keyboard, and LCD display for volume production operation.

- Repeat programming and verification is performed without a PC attached. The programmer is completely self-contained with add-on memory (option), keyboard, and LCD display for volume production operation.
- Does not require an operator who has to have knowledge of operating a PC thus saving on the cost of the operator.
- Saves cost of a PC.
- Data integrity is insured, as there is no chance that an operator may corrupt data in the PC.
- Data security is insured, as the plug-in compact flash card may be removed and stored away at end of each day.
- Seamless transition from engineering to production is ensured, as the project file is generated in engineering, downloaded onto a compact flash card and transferred to manufacturing.
- Compact Flash

### 2) Cluster programming:

- Clustering of programmers provides for flexible and easy way for volume production programming. Several units (N) work together in stand-alone mode to provide an environment for volume programming.
- SuperPro 3000U, SuperPro 501S & SP5000 Cluster is more flexible and expandable because the operator can start with one unit and add more units as the need arises.
- There is less downtime because if one programmer fails the other units can continue to operate.
- It has concurrent programming because each time the operator inserts a chip it begins to program it right away.
- Supports 47,000+ devices and it is easy to update device upon customers' request.
- An operator can easily handle 10 or more programmers at the same time.
- Saves the cost of a PC.
- Compact

3) Asynchronous mode is where each socket operates independently of other sockets including programming and verification operation. This provides fast programming operation as well as the independence from any malfunctioning socket. It is essentially an independent programmer for each socket. Synchronous operation is performed when one programmer supports many sockets. Programming operation is slow and susceptible to interference from a malfunctioning socket.

4) Xeltek updates new devices onto Superpro 5004GP, SuperPro 9000U, SuperPro 5000 and SuperPro 3000U regularly and also upon customer request. Device update is free of charge during the warranty period of the programmer purchased. Xeltek does not have free device update service on other programmers. If you are interested in the new device update service please purchase SuperPro5004GP, SuperPro 9000U, SuperPro 5000 or SuperPro 3000U programmer.