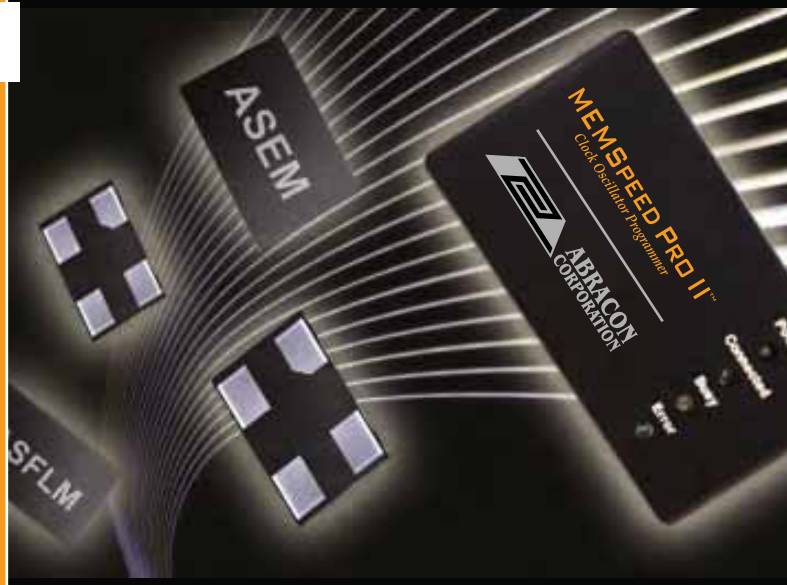
Programmer for PureSilicon™ Oscillators

FEATURES:

- Small dongle interfaces thru USB to PC
- Automatic software upgrades via Internet
- Field Programmable Dongle for
  - ASxM series – 1st generation MEMS CMOS output
  - ASxMB series – 2nd generation MEMS CMOS output
  - ASxMPC series – Low Jitter MEMS CMOS output
  - ASxMPLP series – Low Jitter MEMS LVPECL output
  - ASxMPLV series – Low Jitter MEMS LVDS output
  - ASxMPHC series – Low Jitter MEMS HCSL output
- Socket Adapter cards supports:
  - 2.5 x 2.0 x 0.85 mm (Available for 1st and 2nd generation CMOS only)
  - 3.2 x 2.5 x 0.85 mm (Available for Low Jitter, 1st and 2nd generation MEMS)
  - 5.0 x 3.2 x 0.85 mm(Available for Low Jitter, 1st and 2nd generation MEMS)
  - 7.0 x 5.0 x 0.85 mm(Available for Low Jitter, 1st and 2nd generation MEMS)



MEMSpeed Pro II™

Clock Oscillator Programmer

The MEMSpeed Pro II programmer allows users to instantly program Abracon MEMS oscillators to a custom frequency in seconds through a Microsoft Windows GUI program on a PC. Abracon MEMSpeed Pro II supports CMOS, LVPECL, LVDS, and HCSL output MEMS oscillators in variety of package sizes. The oscillators can be programmed over their respective frequency range in increments of 100Hz (up to four decimal point resolution).

The MEMSpeed Pro II kit includes a programming dongle, USB cable, antistatic tweezers and USB flash drive with a Windows based PC installation program. The MEMSpeed Pro II is used with device dependent socket adapter cards and the appropriate package devices. (* Additional Socket Adapter is required for ASxM BLANK MEMS oscillators. Please contact Abracon for details.)

Abracon MEMSpeed Pro II offers quick turn drop-in solutions to traditional quartz crystal oscillators.

ABRACON CORPORATION
The Power of Linking Together

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Programmer for PureSilicon™ Oscillators

MEMSPEED PRO II™

Clock Oscillator Programmer

MEMSPEEDPRO II SPECIFICATIONS

Programmer Power Supply	Supplied thru USB cable (micro USB to USB A)
Oscillator Operating Supply Voltage	1.8 to 3.6V
Programming Time	2 seconds
Operating System Supported	MS Windows, XP: 32bit version Vista, and Windows 7: 32 or 64 bit
Programmer Size	2.50" x 1.25" x 0.50"
Programmer Weight	0.2 lb

Socket Adapter Kits

ABRACON PART #	KIT CONTENTS
ASVM- ADAPTER-KIT *	Kit includes 4 pin 7.0x5.0mm socket adapter and 50 unprogrammed 7.0X5.0mm ASVM oscillators with ±25ppm over -40 to +85˚C
ASFLM- ADAPTER-KIT *	Kit includes 4 pin 5.0x3.2mm socket adapter and 50 unprogrammed 5.0X3.2mm ASFLM oscillators with ±25ppm over -40 to +85˚C
ASEM- ADAPTER-KIT *	Kit includes 4 pin 3.2x2.5mm socket adapter and 50 unprogrammed 3.2X2.5mm ASEM oscillators with ±25ppm over -40 to +85˚C
ASDM- ADAPTER-KIT *	Kit includes 4 pin 2.5x2.0mm socket adapter and 50 unprogrammed 2.5X2.0mm ASDM oscillators with ±25ppm over -40 to +85˚C
ASVMB-ADAPTER-KIT	Kit includes 4 pin 7.0x5.0mm socket adapter and 50 unprogrammed 7.0X5.0mm ASVMB oscillators with ±25ppm over -40 to +85˚C
ASFLMB- ADAPTER-KIT	Kit includes 4 pin 5.0x3.2mm socket adapter and 50 unprogrammed 5.0X3.2mm ASFLMB oscillators with ±25ppm over -40 to +85˚C
ASEMB- ADAPTER-KIT	Kit includes 4 pin 3.2x2.5mm socket adapter and 50 unprogrammed 3.2X2.5mm ASEMB oscillators with ±25ppm over -40 to +85˚C
ASDMB- ADAPTER-KIT	Kit includes 4 pin 2.5x2.0mm socket adapter and 50 unprogrammed 2.5X2.0mm ASDMB oscillators with ±25ppm over -40 to +85˚
ASVMPC- ADAPTER-KIT	Kit includes 6 pin 7.0x5.0mm socket adapter and 5 unprogrammed 7.0X5.0mm ASVMPC oscillators with ±25ppm over -40 to +85˚C
ASFLMPC- ADAPTER-KIT	Kit includes 6pin 5.0x3.2mm socket adapter and 5 unprogrammed 5.0X3.2mm ASFLMPC oscillators with ±25ppm over -40 to +85˚C
ASEMPC- ADAPTER-KIT	Kit includes 6 pin 3.2x2.5mm socket adapter and 5 unprogrammed 3.2X2.5mm ASEMPC oscillators with ±25ppm over -40 to +85˚C
ASVMPLP- ADAPTER-KIT	Kit includes 6 pin 7.0x5.0mm socket adapter and 5 unprogrammed 7.0X5.0mm ASVMPLP LVPECL oscillators with ±25ppm over -40 to +85˚C
ASFLMPLP- ADAPTER-KIT	Kit includes 6pin 5.0x3.2mm socket adapter and 5 unprogrammed 5.0X3.2mm ASFLMPLP LVPECL oscillators with ±25ppm over -40 to +85˚C
ASEMPLP- ADAPTER-KIT	Kit includes 6 pin 3.2x2.5mm socket adapter and 5 unprogrammed 3.2X2.5mm ASEMPLP LVPECL oscillators with ±25ppm over -40 to +85˚C
ASVMPLV- ADAPTER-KIT	Kit includes 6 pin 7.0x5.0mm socket adapter and 5 unprogrammed 7.0X5.0mm ASVMPLV LVDS oscillators with ±25ppm over -40 to 85˚C
ASFLMPLV- ADAPTER-KIT	Kit includes 6pin 5.0x3.2mm socket adapter and 5 unprogrammed 5.0X3.2mm ASFLMPLV LVDS oscillators with ±25ppm over -40 to +85˚C
ASEMPLV- ADAPTER-KIT	Kit includes 6 pin 3.2x2.5mm socket adapterand 5 unprogrammed 3.2X2.5mm ASEMPLV LVDS oscillators with ±25ppm over -40 to +85˚C
ASVMPHC- ADAPTER-KIT	Kit includes 6 pin 7.0x5.0mm socket adapter and 5 unprogrammed 7.0X5.0mm ASVMPHC HCSL oscillators with ±25ppm over -40 to +85˚C
ASFLMPHC- ADAPTER-KIT	Kit includes 6pin 5.0x3.2mm socket adapter and 5 unprogrammed 5.0X3.2mm ASFLMPHC HCSL oscillators with ±25ppm over -40 to +85˚C
ASEMPHC- ADAPTER-KIT	Kit includes 6 pin 3.2x2.5mm socket adapter and 5 unprogrammed 3.2X2.5mm ASEMPHC HCSL oscillators with ±25ppm over -40 to +85˚C

** The Socket Adapters for MEMSpeed Pro II are used for 1st generation ASxM BLANK MEMS oscillators. Please contact Abracon for details.*

Ordering Information

ABRACON PART #	KIT CONTENTS
MEMSpeed Pro II	Kit includes MEMSPEED II programmer, USB cable, tweezers, Quick Start guide and Installation USB Flash drive

For programming of devices, a MEMSpeed Pro II programmer and an appropriate adapter card kit are required.

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