Forensic Password Accelerator

New Configuration: Now with GTX 1080 Ti

TEST DATA All numbers are Passwords/second	CPUs only: Dual Intel E5-2620v4	FPGA: Field Programmable Gate Array	Forensic Password Accelerator GTX 1080	Forensic Password Accelerator GTX 1080 Ti
Office 2007	2,614	122,900	599,340	842,950
Office 2010	1,351	62,000	299,370	420,400
Office 2013-2016	138	8,300	31,680	52,825
RAR	1,255	38,000	192,470	271,150
ZIP	66,510	1,040,000	2,577,000	3,245,500
Bitlocker	12	Not Supported	5,005	7,040

Test Data Specifications

System using CPUs only:
-Dual Xeon E5-2620v4 2.1Ghz, 8-core processors

FPGA:
-Intel Xeon E5-1620 Processor
-Four Field-Programmable Gate Array (FPGA) based accelerators

Forensic Computers Password Accelerator:
-Dual Xeon E5-2620 processors
-Four GTX 1080 Video Cards, 10,240 total cores

-Four GTX 1080 Ti Video Cards, 14,336 total cores

- **Turnkey**—No additional software purchases are necessary: Passware Kit Forensic is INCLUDED with each FPA

- **Scalable**—combine multiple Password Accelerators using distributed processing to further accelerate password attempts

- **Cool and quiet**— the FPA has been custom designed and extensively tested to meet the unique cooling requirements involved in long-term, high performance use, without degraded performance from thermal throttling or excessive noise

vs CPU
- accelerate password attempts anywhere from **90 to 300 times** that of CPUs alone (**Dual Xeon E5-2620v4** CPUs tested)

vs FPGA
- accelerate password attempts **5 to 7 times** that of a comparably priced, leading competitor's Field-Programmable Grid Array (FPGA) based system

vs Heat
- after **48 hours** of **100% load**, internal GPU temperatures averaged **54°C** at 72°F ambient air temp

System Specifications

Chassis:
Custom Tower or 6U Rackmount Case

Power Supply:
1600 Watt Modular

Chipset:
 Intel® C612

Processors:
Dual Intel® Xeon E5-2620v4 2.1GHz, 8-Core, 20MB Cache

Memory:
64GB DDR4 Registered ECC2133MHz

Integrated LAN:
Intel® Gigabit LAN Controller

Video Controller:
4GB PCI-Express Video Card (Dual-head)

GPU Acceleration:
Four GeForce GTX 1080 Ti Graphics Cards
Self Contained Liquid Cooled
14,336 Total Processing cores

Monitor:
22" LED Monitor (with Speakers)

Software (Included):
Microsoft Windows 10 Pro 64-bit
Password Kit Forensic (MSRP: $995)

GPU Temperatures at full load:
54 degrees Celcius, average

Supports a Wider Range of File Types

- Passware Kit Forensic Software **INCLUDED**. There is no need to purchase Password Software OR additional proprietary forensic software to use the Forensic Password Accelerator.

- The Forensic Password Accelerator is optimized to work with Passware and supports all of the file types that Passware supports.

File Types Supported Field Programmable Gate Array (FPGA) vs Forensic Password Accelerator (FPA)	FPGA	FPA
MS Office 2007, 2010, 2013-2016	✓	✓
ZIP, RAR, PGP	✓	✓
Bitlocker	✗	✓
TrueCrypt	✓	✓
VeraCrypt	✗	✓
Passware Included?	✗	✓
Needs Additional Software?	Yes	No

A true forensic workstation is much more than a computer system with a writeblocker. The resource-heavy and time-consuming nature of digital forensic evidence processing requires careful system construction to ensure that each workstation performs its duties rapidly and reliably, day-in and day-out, over the whole course of its service life.

We've been in the business of making excellent, rock-solid-reliable forensic workstations since 1999. Each of our systems has been specifically configured for exceptional performance under the heavy demands of digital evidence processing.

Moreover, we include **platinum level technical support** for the **lifetime** of each of our systems, **regardless of warranty status!** If you ever have any questions or run into any problems—however big or small, and however far from the date you purchased your systems—give us a call and we will be happy to help.