



COMINO GRANDO FORENSIC DPR 3090-FT/5

ENGINEERED FOR STABLE 24/7 OPERATION

KEY ADVANTAGES

TOP OF THE LINE SOLUTION FOR PASSWORD RECOVERY

We produce high-end performance systems, based on the quality components, provided by world's top manufacturers. Each system is made to be the leader in its class, showing unmatched performance in password recovery.

CONFIDENCE AND STABILITY. RESULTS DELIVERED

We don't just liquid-cool chips, like many other manufacturers do. We liquid-cool all the critical components, such as CPU, GPU, and GPU-related components, allowing them to operate in comfortable conditions, which results in long life of our devices. When it comes to quality builds, look no further.

SILENTLY OUTPERFORMS ANY SIMILAR AIR-COOLED SOLUTION

We work closely with manufacturers of every component which we use in our device, to fine-tune the system for the high performance, silent operation and low power consumption Simply saying, our systems are fast, silent and effective.



Ultra-compact liquid-cooled GPU accelerated devices for password recovery and decryption

Powered by



FEATURES

LIQUID COOLED

More performance compared to similar air-cooled systems. Better cooling means less mistakes made by the chip which equals in more things done right.

REMOTE MANAGEMENT

iKVM remote management: BMC chip to provide intelligence for its IPMI architecture for out-of-band management to enhance hardware-level control for improved IT efficiency.

5 GPUs



5x Nvidia RTX 3090 in 3090-FT/5 configuration. Suitable GPUs for acceleration in forensic tasks.







QUICK-DISCONNECT COUPLINGS

Quick release coupling on each GPU and CPU allows to simplificate maintaining and reduce maintenance time to increase system availability in case of GPUs failure. Moreover all hardware components and cooling system controller board are easily accessible after top lid is unmounted. All water cooled components and coolant are tested for compatibility in a chemical laboratory.

SIMPLE MAINTENANCE.

FAST. RELIABLE. ENERGY EFFICIENT.

PASSWARE BENCHMARK RESULTS*

Encryption	Passwords / second	
MS Office 2013+	136 700	
RAR 5.x	559 800	
APFS (encrypted)	320 000	
Apple iTunes Backup / iOS 10.x+	1 800	
MS Windows / BitLocker	20 100	
Blockchain wallet version 3	2 090 500	
Cryptocurrency wallet	48 900	

HASHCAT 6.2.5 BENCHMARK RESULTS*

Encryption	hashes / second
0 MD5	347.7 GH/s
100 SHA1	110.5 GH/s
1700 SHA2-512	15 942.5 MH/s
6211 TrueCrypt RIPEMD160 + XTS512	4 144.9 kH/s
7100 macOS v10.8+	6 801.7 kH/s
11300 Bitcoin/Litecoin wallet.dat	69 315 H/s
11600 7-ZIP	4 939.9 kH/s

^{*} Maximum results achieved in Comino lab

COMINO 3

TECHNICAL SPECIFICATIONS

COMINO GRANDO FORENSIC DPR 3090-FT/5

GPU 5x NVIDIA RTX™ 3090

GPU Base Clock: 1395 MHz GPU Boost Clock: 1696 MHz

CUDA cores: 10496 Memory Interface: 384-bit

Discrete graphics adapter memory: 24 GB GDDR6X

Memory speed: 936.2 Gbit/s

CPU AMD Ryzen™ Threadripper™ PRO 3975WX

Socket: sWRX8 Lithography: 7 nm Number of Cores: 32 Number of Threads: 64

Processor Base Frequency 3.50 GHz

Max Turbo Frequency Up to 4.20 GHz Cache 128MB L3 Cache

PCIe generation PCIe 4.0 128 lines

Motherboard Chipset: AMD WRX80

CPU Socket support sWRX8

RAM Support: 8 x DIMM, up to 2048GB, DDR4 3200/3000/2933/2800/2666/2400/2133 MHz

ECC and Non-ECC, buffered and Unbuffered, U-DIMM, R-DIMM and 3DS R-DIMM

PCIe expansion slots 7x PCIe 4.0 x16/x8

BMC Aspeed 2500 chipset IPMI 2.0-compliant and supports KVM over LAN (1x RJ45)1 x VGA

output

RAM Storage 256 GB DDR4 3200MHz

Storage NVMe Gen4 SSD 2TB

Power supply 2x 1500W PSU (80+ Platinum, Gold) 94 - 264v 47/63Hz

Max Power consumption

~2.5 kW

Operation system Linux / Windows 10 Pro

Liquid-cooling 5x fullcover waterblocks for 5x nVidia RTX 3090

1x fullcover waterblock for AMD threadripper sWRX8 CPU + VRM

COMINO 6

TECHNICAL SPECIFICATIONS

COMINO GRANDO FORENSIC DPR 3090-FT/5

Dimensions	442 x 812 x 177 mm (without rack-mounting handles)
Network Connectivity	2x RJ45 10 Gigabit Ethernet LAN ports + 2x RJ45 1 Gigabit Ethernet LAN ports optional
Operating temperature	Ambient Temperature Range 5-25°C (19°C - full load recommended operating temperature)
Placement Recommendations	19" rack-mountable (4U) or standalone as a Workstation
Rack AC Power Recommendations	100 - 240V AC power source with 2x C19 or 2x Schuko power sockets for each device setup 3kW power line.
Amount of heat	8532 BTU per hour
Air flow rate	130 CFM

COMINO 10

PACKAGING CONTENT

- COMINO GRANDO FORENSIC DPR 3090-FT/5 is 19" rack-mountable (4U)
- 2x AC Power Cables (UK (BS 1363) / EU (CEE 7/7) / US (NEMA 5-15 (B)) plug type)
- · USB stick with system settings
- Rack handles
- · A bottle with additional coolant





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