




2023 AMD PRO SECURITY FOR RYZEN™ PRO

MULTILAYERED APPROACH FOR THE MOST MODERN SECURITY¹



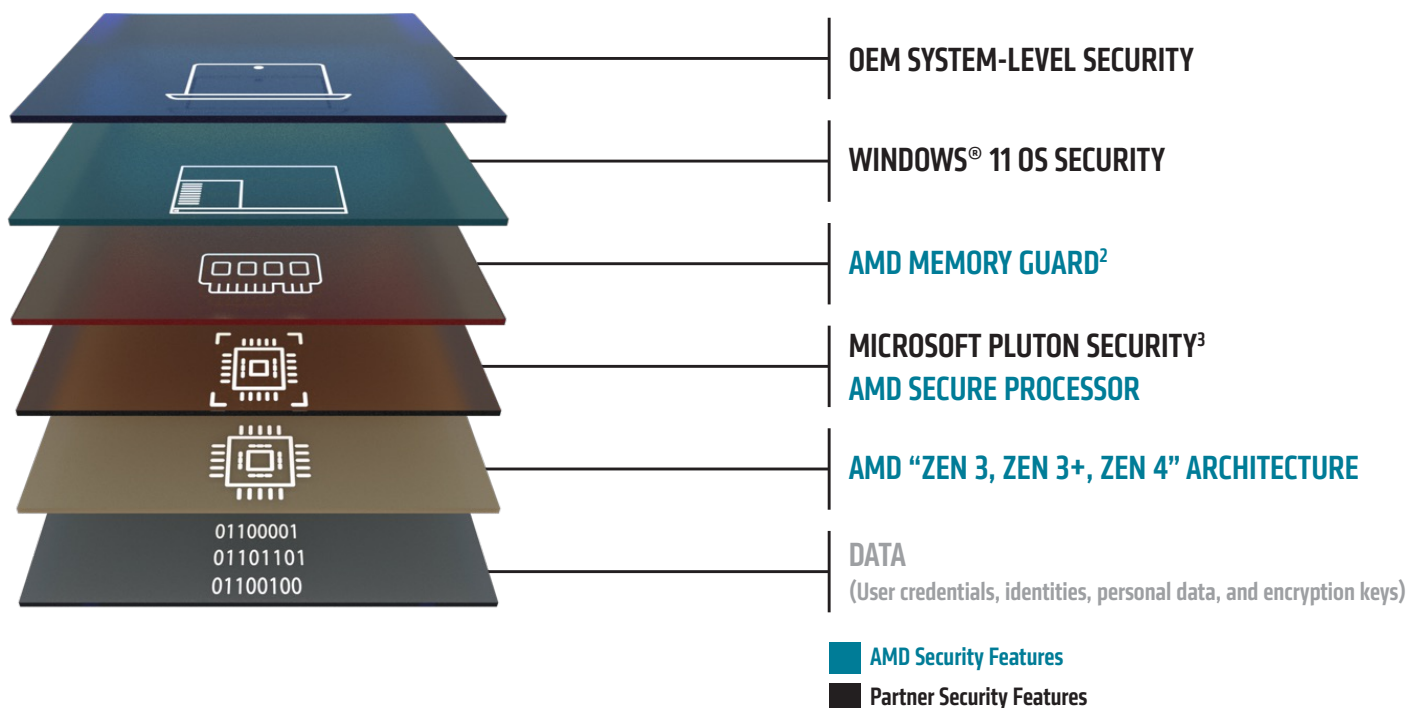
MODERN, MULTILAYERED SECURITY

A multilayered set of security features **at the hardware, OS, and system level**. Ready to help defend against sophisticated attacks of today and tomorrow.




	OEM System	AMD collaborates closely with OEMs to enable and complement their security features
	OS	AMD partners with OS providers like Microsoft to take OS security to the next level
	Hardware & Firmware	Security features from AMD built right into the silicon design

AMD POWERED BUSINESS PCs

Take advantage of cutting-edge security at all levels.



SOLUTION HIGHLIGHTS

	Security Layer	Features	Benefits
	OEM System	OEM SECURITY FEATURES	Deep collaboration between OS and hardware providers with OEMs to complement and enable their enterprise-grade security features to protect sensitive data
	OS	WINDOWS 11 SECURITY	Windows 11 helps block software and firmware attacks from the moment you turn on your device. Full support for Secured-core PC initiative, Hardware Enforced Stack Protection, Advanced Threat Protection, Enhanced Sign-On, BitLocker, and many more features at OS level
	Hardware & Firmware	AMD "ZEN 3, ZEN 3+, ZEN 4" ARCHITECTURE	AMD "Zen" Core architecture with AMD Shadow Stack, a robust security approach to help protect against control-flow attacks
		AMD SECURE PROCESSOR	Dedicated security processor that validates code before it is executed to help ensure data and application integrity
		MICROSOFT PLUTON SECURITY PROCESSOR ³	A chip-to-cloud security technology designed and updated by Microsoft, that enhances security to the core of Windows [®] 11 PCs with continuous protection for user credentials, identities, personal data, and encryption *FIPS 140-3 Level 2 Certification
		AMD MEMORY GUARD ²	Delivers real-time encryption of system memory to help defend against physical attacks should your laptop be lost or stolen
		AMD SHADOW STACK	Robust security approach to help protect against control-flow attacks by checking the normal program stack against a hardware-stored copy and enabling Microsoft Hardware Enforced Stack Protection in Windows [®] 11 security as part of a comprehensive set of AMD security features to help secure PCs
		FIPS 140-3 Level 1 and Level 2* Certification	Government encryption standard adopted by private sector as best practice for validating the security of cryptographic hardware

*FIPS 140-3 Level 2 certification under test

GEN-TO-GEN AMD PRO SECURITY FEATURE COMPARISON

AMD PRO Security Capabilities			
	Ryzen™ PRO 5000 and 7030 Series Processors	Ryzen™ PRO 6000 Series Processors	Ryzen™ PRO 7040 Series Processors
AMD "Zen" Architecture	"Zen 3"	"Zen 3+"	"Zen 4"
Integrated Microsoft Pluton Security Processor ³		✓	✓
System Management Module (SMM-30)		✓	✓
Other Features	✓	✓	✓

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To find out more about AMD Ryzen™ PRO processors, please visit [www.AMD.com/pro](https://www.amd.com/pro)

1. 'Most Modern Security' is defined as AMD CPUs with Microsoft Secured-core PC - Modern Security technology enabled by the system manufacturer. Check with your system manufacturer prior to purchase. **RMP-20**

2. Full system memory encryption with AMD Memory Guard is included in AMD Ryzen™ PRO, AMD Ryzen™ Threadripper PRO, and AMD Athlon™ PRO processors. Requires OEM enablement. Check with the system manufacturer prior to purchase. **GD-206**.

3. Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at <https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/>. Microsoft Pluton security processor requires OEM enablement. Check with the OEM before purchase. AMD has not verified the third-party claim. **GD-202**.