

AMD RYZEN™ PRO VS NON-PRO

BENEFITS OF UPGRADING TO RYZEN™ PROCESSORS WITH PRO TECHNOLOGIES

Key Capabilities	AMD RYZEN	AMD RYZEN PRO
AMD “Zen” Architecture	✓	✓
AMD Secure Processor	✓	✓
Microsoft Pluton Security Processor ¹	✓	✓
AMD PRO security - AMD Memory Guard ² - Dynamic Root of Trust for Measurement (DRTM) Secure Launch part of Windows SCPC - System Management Mode (SMM) Isolation part of Windows SCPC - FIPS 140-3 certification (Level 1 and Level 2*)	✗	✓
AMD PRO manageability	✗	✓
AMD PRO business ready	✗	✓

*FIPS 140-3 Level 2 certification under test
SCPC – Secured-Core PC

RYZEN™ PRO PROCESSOR DIFFERENTIATORS

An upgrade to Ryzen™ PRO processor-based PCs adds the critical set of security, manageability, reliability, and longevity features that businesses need.

1 AMD PRO SECURITY MOST MODERN, MULTILAYERED SECURITY³

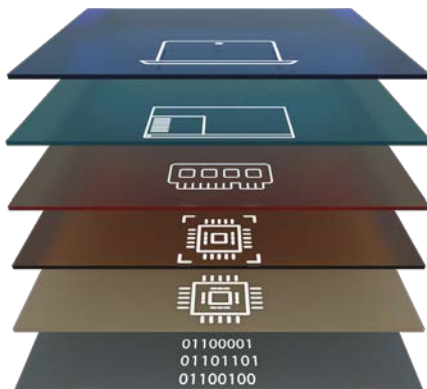


Figure 1: AMD powered PCs Provide Cutting-Edge Security at All Levels

Security Differentiators:

AMD Memory Guard ²	Protects your sensitive business data when an employee's PC is lost or stolen.
DRTM Secure Launch (Part of Windows Secured-Core PC)	DRTM lets the system freely boot into untrusted code initially, but shortly after it launches the system into a trusted state by taking control of all CPUs and forcing them down a well-known and measured code path.
SMM Isolation (Part of Windows Secured-Core PC)	Helps defend the OS against platform firmware level attacks. It protects and isolates the SMM environment and SMI handlers by enforcing OEM defined resource access policy.
FIPS 140-3 certification (Level 1 and Level 2*)	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

2 AMD PRO MANAGEABILITY SIMPLIFIED PC FLEET MANAGEMENT

Delivering a robust feature set that simplifies modern IT deployment and management of an ever-growing and changing PC fleet.

FLEXIBILITY AND CHOICE WITH MULTI-VENDOR SUPPORT



Open standard features for wired and wireless devices

Wireless support for 33 DASH profiles

SEAMLESS DEPLOYMENT



Support for cloud-based configuration technologies such as **Windows Autopilot**

SIMPLIFIED MANAGEMENT AT SCALE



Support for out-of-band and in-band manageability, such as **Microsoft Endpoint Manager**

3 AMD PRO BUSINESS READY BUILD LONG TERM PLANS AND WORRY LESS

AMD PRO business ready provides IT decision makers with long term consistency to simplify IT planning and maximize return on investment.



IMAGE STABILITY
18 months of planned software stability brings peace of mind

AVAILABILITY
24 months of planned availability for a stable enterprise



QUALITY
Enhanced platform validation process to ensure Enterprise-grade quality

RELIABILITY
Continuous validation to ensure long-term stability and quality



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FOOTNOTES

1. 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**
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. *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**

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