



Platform Brief
Intel® Atom™ Z8000 Processor Series

Business Users and IT Benefit from Business Ready Tablets for Windows* and Android*

Boost security and productivity with tablets powered by Intel.

The new Intel® Atom™ Z8000 Processor Series integrates the performance and collaboration users need today, while delivering the security and management capabilities IT requires. This new processor series is designed for high-performance and lightweight devices, and it enables productive mobile workflows, thanks to long battery life. Additionally, built-in, hardware-enhanced features allow IT to protect the enterprise and keep costs low. Furthermore, a robust ecosystem of device manufacturers and application developers for Windows and Android solutions offers a breadth of products and applications that companies can choose from to meet a range of user and IT needs.

Power your enterprise with business-class Intel tablets.



Business Grade Productivity and Security Built In

Business tablets with the Intel Atom processor Z8000 series help workers get more done. Designed for performance within low power envelopes, Intel Atom processor-based tablets can deliver great mobile performance without sacrificing battery life. And, new features, like Intel® Pro WiDi^{1,2,3} support secure collaboration in conference rooms, making it easy to privately share sensitive information on conference room displays, enabling highly effective meetings.



As companies standardize on 64-bit applications and operating systems, Intel Atom Z8000 Processor Series with 64-bit support enables them to extend their existing software investments to new enterprise-class tablets, and deliver a common image across the client spectrum. Such compatibility allows IT to more easily provision new tablets with existing sources. This simplifies support, reduces costs across the technology fleet, and speeds up deployments, while preparing for demanding 64-bit applications and usages yet to come.

Just as laptops and desktops are victims of sophisticated attackers, tablets have become targets for planting malware, stealing data and credentials, and gaining unauthorized network access. Hardware-enhanced security in this new processor for business-class Android and Windows tablets supports secure⁴, hardware-accelerated encryption with Intel® Advanced Encryption Standard

New Instructions, and Intel® Identity Protection Technology⁵. Intel targets gaps and vulnerabilities in the open Android OS by delivering Intel® Device Protection Technology with Security Extensions enhancements. These extensions work with McAfee Mobile Security to stop malware in its tracks even prior to download. In summary, this new processor helps improve security posture by detecting and preventing malware invasion, protecting data⁶, securing identities and keys, while simplifying log-ins and strengthening network security.

The adoption of consumer-class tablets in the enterprise has long been a challenge for IT, forcing purchases of additional MDM software and enforcing new policies and processes in order to both protect the company and accommodate users. Intel Atom Z8000 Processor Series-based tablets running Windows OS can simplify manageability and reduce IT costs with built-in support for existing management infrastructure through standard APIs and familiar Windows-supported management tools.

Intel tablets with Android OS also support Android for Work programs, helping make consumer Android tablets more secure and manageable in the enterprise. Intel works closely with OEMs to help ensure the uniformity and consistency of software and security updates in Intel tablets, so that in an IT environment they can uniformly support the latest OS release. Intel's work with OEMs allows businesses to invest in application development for Android in Enterprise.

Intel tablets running Windows OS deliver the performance required to enable multi-windowing, so business users' familiarity with the OS can easily extend to mobile devices, allowing them to continue to multitask and stay productive on all of their devices.

With tablets based on this new processor, professionals enjoy great collaboration and productivity, while IT benefits from strong security and reduced costs.

Enabling Enterprise-class Windows and Android Devices for Business

WINDOWS 8.1*		
	FEATURE	BENEFIT
Productivity/ Collaboration	Intel® Wireless Display Intel® Pro WiDi ¹	Wirelessly share sensitive content on conference room screens. IT can take advantage of Intel® Pro WiDi features to enhance privacy and management.
	Intel® Platform Trust Technology	Integrated Trusted Platform Module support, enabling a trusted execution environment (TEE) at boot time with Windows* Secure Boot.
Enterprise-class Security	Intel® Device Protection Technology with OS Guard	Uses dynamic whitelisting to help detect and prevent certain privilege escalation attacks that can lead to hijacking the OS.
	Intel® Data Protection Technology with Advanced Encryption Standard New Instructions and Secure Key	Hardware-accelerated encryption and strong encryption keys enable strong, always-on encryption while supporting high user productivity.
	Intel® Identity Protection Technology with One-time Password (OTP), Protected Transaction Display (PTD), and Public Key Infrastructure ¹ (PKI)	Hardware-enhanced identity protection for multiple use cases across the enterprise. PKI delivers strong protection for keys and certificates, while authenticating user and device to network. PKI eliminates need for hardware tokens and smartcards, simplifying security management.
Enterprise Manageability	64-bit support	Reduce costs by leveraging existing 64-bit applications and infrastructure.
	Windows Infrastructure support	Efficiently manage mobile devices with existing Windows management tools; no need to purchase additional software for BYOD management.
	Wireless Credential Exchange support	Helps protect against data loss when devices go missing.

ANDROID*		
	FEATURE	BENEFIT
Productivity/ Collaboration	Intel® Wireless Display	Wirelessly share HD content on business HD displays.
	Context Aware	Contextual sensing knows you are home or work and tailors applications, settings, and notifications to match your needs. APIs are available for unique experiences as live your day with contextual sensing about how you use your device, your activity and the sounds around you.
Enterprise-class Security	Secure Boot	Creates a trusted execution environment by verifying integrity of storage devices at boot time.
	Digital Rights Management support	Enables applications to manage and protect content.
	Intel® Device Protection Technology with OS Guard ¹	Uses dynamic whitelisting to help detect and prevent certain privilege escalation attacks that can lead to hijacking the OS.
	Intel® Device Protection Technology with Security Extensions	
	Intel® Data Protection Technology with Advanced Encryption Standard New Instructions	Hardware-accelerated encryption enables always-on cryptography while supporting high user productivity.
Intel® Identity Protection Technology with One-time Password (OTP)	Strong security for user presence verification and no password logins. Simplifies user logins.	
Enterprise Manageability	64-bit support	Reduce costs by leveraging existing 64-bit applications and infrastructure.
	Android for Work	Support for Android for Work on Android Lollipop OS

Up to 24 Percent Lower Total Cost of Ownership⁷

Windows 8 tablets with Intel® Atom™ Processors can provide total cost of ownership (TCO) savings of up to 24 percent⁷ compared to other tablets, due to savings in software and management costs, and improvement in end-user productivity.

- Reduce software costs using resources across all devices: tablets, desktops, and notebooks.
- Lower IT costs by leveraging existing management tools with standard APIs applicable to Windows 8.1 Pro* tablets, allowing you to avoid the added costs typically associated with Bring Your Own Device and Mobile Device Management. Use current platform images for operating system and software, such as Microsoft* Office, eliminating purchases of additional sources.
- Improve productivity by enabling business users to perform tasks and work with the applications they're already familiar with.

Improve productivity and reduce TCO with Intel Atom processors on Windows 8.1 tablets.

SPECIFICATIONS

Intel® Atom™ Z8000 Processor Series	<ul style="list-style-type: none">• Frequency up to 2.40 GHz
Number of Cores/Threads	<ul style="list-style-type: none">• 4/4
Graphics	<ul style="list-style-type: none">• Intel® HD Graphics (Gen 8) with Intel® Clear Video HD Technology²
Display Support	<ul style="list-style-type: none">• Up to three monitors• 4k display support with HDMI• External 4k display support over HDMI• Intel® WiDi, Intel® Pro WiDi
Camera Support	<ul style="list-style-type: none">• Intel® RealSense Technology• Up to 24 MP camera• HEVC hardware decode
Security Support	<ul style="list-style-type: none">• Intel® Device Protection Technology• Intel® Identity Protection Technology• Multi-factor authentication
Communications Support	<ul style="list-style-type: none">• Intel® XMM726X with LTE, Cat-6, and carrier aggregation• Intel WLAN solution with Wi-Fi 802.11ac 2x2, BT4.0, WiDi, Pro WiDi, WiDi, and Miracast*• Common Connectivity Framework
Compatibility	<ul style="list-style-type: none">• Full Windows* 8 compatibility for desktop mode, touch user interface and Windows* Store applications• Android Lollipop

1 Only available in certain SKUs.

2 Requires an Intel® Wireless Display enabled PC, compatible adapter, and TV. 1080p and Blu-Ray* or other protected content playback only available on Intel® Atom™ processor-based tablets with built-in visuals enabled. Consult your PC manufacturer. For more information, see <http://www.intel.com/go/widi>.

3 Intel® Pro WiDi feature available only on Windows SKUs with Intel® Wifi (Stone Peak) and Intel® Atom™ 8700 Processor Series.

4 No computer system can provide absolute security. Requires an enabled Intel® processor and software optimized for use of the technology. Consult your system manufacturer and/or software vendor for more information.

5 No computer system can provide absolute security. Requires an Intel® Identity Protection Technology-enabled system, including an enabled Intel® processor, enabled chipset, firmware, software, and Intel integrated graphics (in some cases) and participating website/service. Intel assumes no liability for lost or stolen data and/or systems or any resulting damages. For more information, visit <http://ipt.intel.com/>. Consult your system manufacturer and/or software vendor for more information.

6 No computer system can provide absolute security. Requires an enabled Intel® Atom processor, enabled chipset, firmware, software and may require a subscription with a capable service provider (may not be available in all countries). Intel assumes no liability for lost or stolen data and/or systems or any other damages resulting thereof. Consult your Service Provider for availability and functionality. For more information, visit <http://www.intel.com/go/anti-theft>. Consult your system manufacturer and/or software vendor for more information.

7 http://www.principledtechnologies.com/Intel/Atom_tablet_TCO_0313.pdf. A Principled Technologies White Paper Commissioned by Intel, *Comparing the Total Cost of Ownership of Tablets*.

