



Tablets for 21st Century Education

PRODUCT BRIEF

Intel® studybook

Intel® Atom™ processor Z650

Part of the Intel® Learning Series



“There was a consistently positive correlation between integrative motivation and second language achievement ... tablet PCs mediated collaborative learning benefits.”

Tablet PC to Support Collaborative Learning: An Empirical Study of English Vocabulary Learning

Mobile computing is gaining momentum for today's educational organizations because of a new class of devices—this category-defining blockbuster is the tablet. Immensely portable, tablets serve as eReaders, video repositories, and Web-browsing devices with instant access to thousands of applications—often replacing the need for physical books.

Inside the classroom, tablets are transforming traditional lessons. Schools are increasingly seeing the potential of mobile devices. Not only are the devices themselves less expensive than most laptops, they need less infrastructure to support them.¹

The versatile, robust Intel® studybook is designed especially for education. It combines education-specific hardware features and software applications with the convenience and flexibility of a tablet. Easy to carry and hold, the tablet's anywhere, anytime connectivity and touch screen enables learning inside and outside of the classroom, and at home. Durability, flexibility, and security make the tablet a sound investment for schools and nations seeking solid 21st century learning outcomes.

Based on extensive research in classrooms worldwide and in collaboration with educators and local vendors, the Intel® studybook brings advantages, from localized content to interoperability with school networks and infrastructures:

- Enables best practices for curriculum and instruction in classrooms
- Allows anytime, anywhere access to information, tools for learning and productivity, and hundreds of thousands of custom applications (depending on the operating system)
- Part of the Intel® Learning Series, a cost-effective, end-to-end solution delivering culturally relevant content, sustainability, and support for local economies

Tactile home button

I/O port cover
Protect ports from water and dust



Front camera

I/O port cover



Intel® Learning Series Software Suite

The Intel® Learning Series Software Suite provides a collaborative, secure, enhanced, and easy-to-use experience. Optimized for performance, stability, and scalability, it has been tested in real-world 1:1 eLearning environments.

Students: Reading and collaboration tools to help students learn and improve core skills.

Teachers: Optimized for wireless classroom environments, classroom management application supports collaboration, screen sharing, and file transfer for efficient organization and assessment.

IT Administrators: The Trusted Platform Module (TPM)-based hardware and software theft deterrent solution helps protect capital and operational investments. Theft deterrence includes certificate-based policies that are hardware-hardened and BIOS-enforced.

Key Features



Theft Deterrent:

Enhanced manageability, scalability, and usability



Classroom Management:

Interactive learning, facilitation, collaboration, and assessment



Access Management²:

Capabilities to set and monitor student access in school and at home



Painting and Drawing²:

Powerful drawing tool



Note Taker²:

Note-taking tool



eReader:

Optimized e-Reader supporting multiple format and annotation



LabCam:

LabCam touch-optimized application for science and mathematics

System Configuration of an Intel® studybook

Part of the Intel® Learning Series



Processor	<ul style="list-style-type: none"> Intel® Atom™ processor Z650
Memory	<ul style="list-style-type: none"> 1GB DDR2
Storage	<ul style="list-style-type: none"> 4G/8G/16G/32G SSD
LCD/Touch Panel	<ul style="list-style-type: none"> 7" 1024x600 capacitive multi-touch (16:9)
Operating System	<ul style="list-style-type: none"> Windows* 7/Android* Honeycomb
Security	<ul style="list-style-type: none"> Trusted Platform Module (TPM)-based Intel Learning Series theft deterrent solution
Camera	<ul style="list-style-type: none"> Front 0.3MP (optional), rear 2.0MP (optional)
Audio/Speaker/Microphone	<ul style="list-style-type: none"> Integrated audio, single speaker, and digital microphone
Accelerometer	<ul style="list-style-type: none"> Accelerometer, light sensor (optional)
System I/O	<ul style="list-style-type: none"> 1 x USB port, 1 micro-SD slot, 3G card slot mic, audio out, optional mini-HDMI, SIM card slot (for 3G sku)
LAN/WLAN	<ul style="list-style-type: none"> 802.11b/g/n WLAN (1x1) 3G (optional on Android sku), Bluetooth* (optional)
Battery³	<ul style="list-style-type: none"> Up to 5.5 hours
Custom Mini-Chassis	<ul style="list-style-type: none"> 207x135x16.5mm 525g
Drop Test	<ul style="list-style-type: none"> 70cm drop, water, and dust resistance (IP41)

“As schools transform their teaching practices to tablet computing, special attention should be given to integrate the tablet PC into the curriculum and teaching across as many subjects as possible.”

Singapore Tablet PC Program Study

1. The NMC Horizon Report: 2011 K–12 Edition, The New Media Consortium. ISBN 978-0-9828290-9-7

2. Windows* 7 only.

3. Based on 7" LCD and defined brightness, WiFi off, and camera disabled. Actual battery life may vary based on product settings, usage patterns, and environmental conditions.



Why educators are choosing tablets

The Intel® studybook

The move to affordable connectivity for schools is driving a parallel shift for tablets, from companion devices to primary devices. Tablets can be used to teach 21st century skills—from problem solving and critical thinking to content creation and collaboration. Delivering high-quality, energy-efficient performance in a rugged form factor, Intel® studybooks are a natural fit for diverse student populations.

“Students completed almost 20,000 problems over 18 weeks on six tablet PCs rotated between three classes.”

Integration and Perception of Tablet PC Software in Elementary Mathematics Education

- Enable anytime, anywhere access to information, tools for learning and productivity, and hundreds of thousands of custom applications (depending on the operating system).
- Include innovative features that support project-based inquiry and mobile learning environments, such as the accelerometer, camera, microphone, and light sensor.
- Ideal for storing reference materials and research, as well as tools for fieldwork. Tablets can be used to record observations via voice, text, or multimedia, and access reference sources in real time.
- Can transform education across the curriculum. For example:
 - **Language arts:** Emergent readers can trace letters while hearing them enunciated. All grade levels can take notes, highlight and annotate reading assignments and worksheets, and create concept maps.
 - **Mathematics and science:** Students can create graphs and diagrams, predict trends, record observations in class or in the field, illustrate concepts, create models, and follow hotlinks to deeper content.
- Tasks that were once performed in a Web browser can now be distributed among tablet apps created specifically for education.
- Support improved retention, organization, capture of video/audio while taking notes, collaboration, and peer review.

Purpose-built for education, Intel® studybooks are delivered by local vendors, providing geographically relevant, culturally appropriate teaching and learning solutions, and ongoing local service and support.

To find out more about the Intel® Learning Series, visit <http://www.intellearningseries.com>.

For sales information, contact your Intel Authorized Reseller.

