SAMSUNG

EDUCATION

Samsung B2B Integrated Offering

Key Devices and Solutions

Future Education

Intelligent class

Cutting-edge educational platform crafted to foster an engaging, interactive classroom experience for both students and teachers

1 Galaxy Device & Knox   2 LMS   3 Smart Interactive Display

Digital Technology by Space

Digital transformation

Digital-first institution, aiming to become a symbol of digital education innovation

1 Smart Display & VXT   2 Note Assist   3 Smart Monitor
4 Kiosk   5 Harman Professional

HVAC & Lighting

Tailor-made classroom

Comprehensive autonomous solutions for managing air quality and room conditions

1 Air Monitor™   2 BESPOKE Cube™ Air Infinite Line   3 WindFree™ SAC
4 Energizing LED Lighting   5 Oxygen Generator   6 Commercial Cleaning Robots
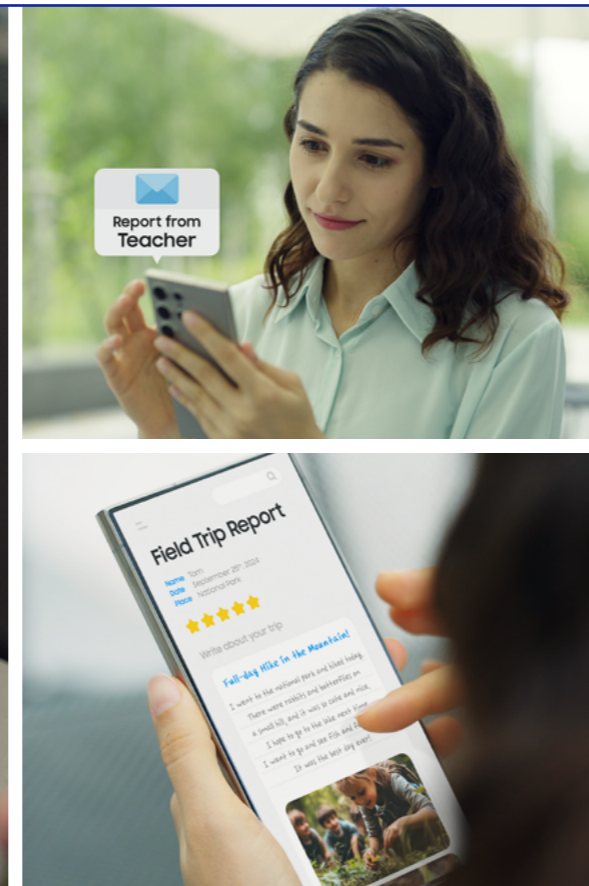
Integration

Integrated management

Effective remote management system for multiple number of schools

1 SmartThings Pro   2 Galaxy Watch   3 Intelligent Security Camera

The Future of Learning

Samsung B2B Integrated Offering

Transform your learning spaces into innovative hubs, foster interactive education, promote health-conscious study environments, and streamline operations through advanced digital integration

Future Education

Galaxy Devices & Knox

Fostering engaging educational environments through digital learning platforms and contents

· Optimizes learning outcomes with comprehensive audiovisual materials created using various softwares and integration of Google Workspace

· Ignites student interest through cutting-edge educational methods, including interactive e-textbooks and dynamic quizzes delivered via digital learning platforms

LMS (Learning Management System)

Offering a suite of tools to enhance collaboration, boost productivity, and manage classes effectively

· Streamlines the entire assignment lifecycle—from creation to evaluation—utilizing Google Classroom's robust task management tools

· Customizes device integration settings to align seamlessly with each school's unique IT policies and requirements

· Assure robust data security through advanced protection system tracking data access and device locations

· Helps boost student engagement and collaboration using a suite of interactive tools, such as email, Google Meet and Google Drive

· Cultivates a distraction-free learning atmosphere by selectively restricting access to non-educational apps and websites

· Generates grade-specific and subject-specific automatic test questions to enhance work efficiency

Start the journey toward intelligent education

* Availability may vary by country, region, service provider, network environment, or device, and may change without notice.
* Contact your regional sales manager for more details.
* The images shown are for illustration purposes only.
* Only devices that support the Screen Mirroring receiving function can share screens.
* Additional licenses and devices for certain features are sold separately.

Future Education

Smart Interactive Display

Providing student-friendly and intuitive experiences

· Facilitates effortless screen navigation through intuitively designed interface
· Features a remote controller for smooth operation during classes

Upgrading the classroom with intuitive features

· Enables device connectivity for seamless content utilization and file format switching across and within devices
· Empowers educators with on-screen annotation functionality (Overwriting), complete with page-saving capability (Overlay Annotation)
· Consolidates in-class note-taking, instant resource searches, and content sharing on a single, integrated screen
· Fosters collaborative and participatory learning environments through advanced multi-touch functionality

Offering efficiency-boosting features for effective lesson delivery

· Integrates real-time translation, learning content summarization, and instant sharing capabilities
· Simplifies distribution of digital learning materials via email and printer integration
· Supports comprehensive post-lesson review activities, including automated quiz generation

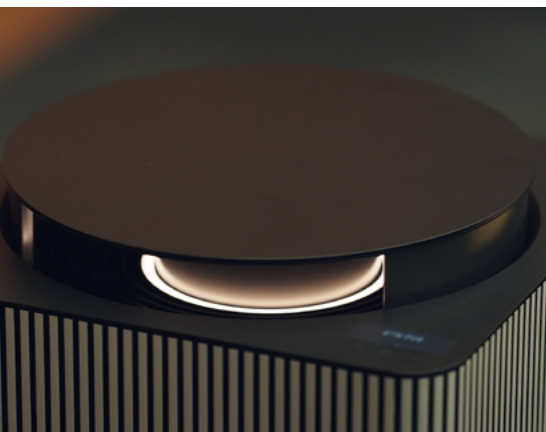# Enhance interactive classes for everyone with smart features

*Images shown are for illustration purposes only and may vary according to real usage.
*Only devices that support the Screen Mirroring receiving function can share screens.
*Supported web browsers: Chrome 72+, Safari 13+, Edge 79+, and Firefox 66+.
*Supported mobile platforms: Android 9+ and iOS 12+.
*AI features are currently unavailable and will be introduced in 2025.

HVAC & Lighting

Air Monitor™

Real-time indoor air quality monitoring and purification

· Detects temperature, humidity level, pollution rates, harmful gases, and CO_2
· Automated air conditioners and air purifiers via SmartThings link
· BESPOKE Air purifier even removes ultra fine dust with washable PM1.0 filter

BESPOKE Cube™ Air Infinite Line

Fresh oxygen supply

· Maintain an oxygen concentration level similar to that of forest
· Create an optimal environment with a smart air conditioning system

WindFree™ SAC

Conserving energy through smart devices

· WindFree™ Cooling maintains a pleasant temperature without the discomfort of direct cold drafts
· Disperses cool air gently through approximately 15,000 microholes
· Incorporates a high-efficiency PM 1.0 filter, capable of capturing ultra-fine dust particles * PM1.0 filter is optional
· Employs human presence sensors for smart energy management, switching to WindFree™ Cooling mode for up to 50% energy savings
· Automatically powers down to save energy when no one is present
· Maximizes energy efficiency by analyzing absence patterns and dynamically adjusting set-off times

Promote comfortable breathing and enhanced learning in secure classrooms

*Refer to page 26 for the full disclaimer.

HVAC & Lighting

Energizing LED Lighting

Encouraging focus through the synchronization of biorhythm

· Helps optimize biorhythms by reducing melatonin hormone production
· Helps reduce concentration decline typically associated with suboptimal lighting conditions

Oxygen Generator

Boosting cognitive performance with Oxygen Generator, regulating precise oxygen levels

· Maintains optimal environmental conditions, preventing cognitive fatigue caused by high carbon dioxide levels
· Sustains an oxygen concentration level similar to that of a forest

Create an immersive learning environment using customized solutions

*Features are only available in South Korea.
*Availability may vary by service provider, network environment, or device, and may change without notice.
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Commercial Cleaning Robots

## Maximizing cleaning efficiency with advanced robotics

- Implements intelligent time scheduling, targeting corridors during daytime hours and focusing on lobbies during off-peak periods
- Executes comprehensive cleaning routines, including vacuum cleaning, wet cleaning, and mopping across various surfaces such as marble, wood, and carpet

Providing fully automated and convenient cleaning operations

- Features a workstation complete with water supply and drainage capabilities, along with an integrated detergent dilution system
- Delivers detailed cleaning status data for streamlined management and optimized operational efficiency

Integrating with b.IoT Samsung's building management solution

- Seamlessly connects with Samsung's b.IoT enabling real-time monitoring of cleaning status via an intuitive dashboard
- Features a remote control capability, enabling accurate prepositioning at cleaning starting points and automatic elevator entry
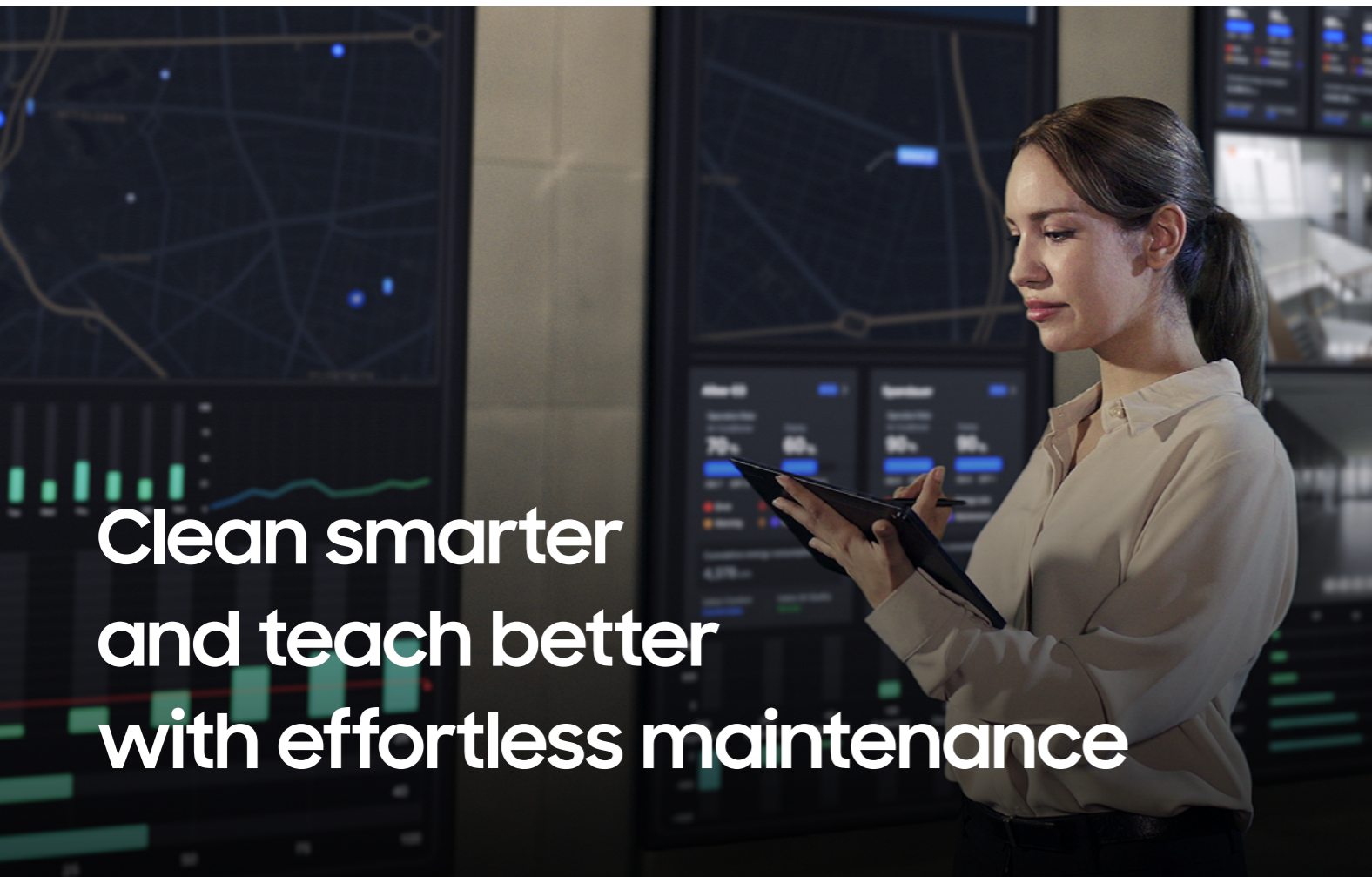
Clean smarter and teach better with effortless maintenance

*The images shown are for illustration purposes only.
*Carpets over 5mm in height are detected, while in the absence of any carpet, it operates in default cleaning mode.
*Space recognition technology may be influenced by the shape of the object and its surrounding environment.

Smart Display

Providing tailored displays for various functions and spaces

· Delivers a comprehensive range of specialized display solutions, including outdoor and indoor signage, interactive displays, and smart signage, each designed to optimize information delivery in unique spatial contexts

· Specialized display installations enhance overall aesthetic of interiors while blending in seamlessly

VXT (Visual eXperience Transformation)

Enabling easy content creation, management, and device control

· Empowers every user to create engaging content through a platform featuring editable templates

· Offers real-time remote control capabilities for security management, including customizable lock options and dynamic time display settings

Efficient campus communication ensuring everyone stays connected and informed

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*The UX images may vary slightly from the actual user experience.
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Shape tomorrow's education by embracing digital transformation today

Note Assist

Optimizing faculty offices for improved learning management and reduced administrative burden

· Enables online learning regardless of location through seamless device connectivity across platforms
· Enhances productivity with advanced Note Assist features, including intelligent spell-checking, real-time translation, content summarization, and voice-to-text conversion

Smart Monitor & Kiosk

Strengthening content accessibility in libraries through digitalization

· Streamlines access to digital information and multimedia content via strategically placed kiosks, LED signage, and tablets
· Leverages kiosks to deliver personalized multimedia recommendations and expedite book lending and returning processes

Harman Professional

Delivering immersive experiences in auditoriums with high-quality audiovisual systems

· Creates optimal environmental using Harman Professional's cutting-edge sound systems, and precision lighting
· Provides ideal pre-lecture, pre-performance atmospheres through integration with SmartThings Pro technology

*Note Assist features require a Samsung account login.
*Some chat applications may not support this feature.
*Certain languages may require a language pack download.
*Service availability may vary by language. The accuracy of results is not guaranteed.

Integration

SmartThings Pro

Controlling temperature through data-driven methods

· Calculates heating, cooling temperatures based on the climate, amount of clothing worn and activity data analysis

· Flex Pre-cooling/Pre-heating : Set a schedule to reach the target temperature at a specific time

Optimizing air conditioning efficiency and preventing energy waste through intelligent detection and control

· Improve air conditioner efficiency by adjusting the outdoor unit's refrigerant evaporation temperature based on indoor load and compressor current

· Prevents energy waste through real-time intelligent data analysis

Automating device management through customizable schedules, rules, and conditions

· Automatically controls devices based on preset times or conditions

· Selects a device to schedule for control and manage it for a desired duration

· Sets the device to perform a specific action when certain conditions are met, which can be combined using AND or OR

Enhance energy efficiency and sustainability

*The images shown are for illustration purposes only.
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*Effect of energy saving algorithm may vary depending on the actual use environment.
*Information above is subject to change with software updates.

Integration

Galaxy Watch

Ensuring personal safety with Galaxy Watch

· Anticipates and addresses potential accidents using smart safety equipment and monitoring systems
· Reduces the risk of casualties by monitoring the health of night shift workers

Intelligent Security Camera

Enhancing security with risk analysis

· Detects objects to automatically identify and block potential hazards in advance
· Leverages meta-filter search for quick, text-like searches through large datasets
· Integrates search and monitoring to track individuals' movements and timelines with person-specific object searches

Implementing "Intelligent Security Camera" systems

· Identifies on-campus risks and objects that may be easily overlooked
· Broadcasts warning messages upon hazard detection, with 5 default voice options and customizable audio

Build a safer school environment for all and secure every step of the learning journey

[Galaxy Watch]
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*Images in this proposal are simulated for illustrative purposes and may vary based on actual usage.
*The battery usage time is based on internal laboratory tests conducted under typical usage scenarios over 24 hours, which included 52 notifications, 4 minutes of text checking, 9 minutes of time checking, and 30 minutes of exercise while connected to a Galaxy smartphone via Bluetooth. Actual battery usage time may vary due to factors such as Bluetooth connection status, device configuration and settings, signal strength, noise levels, device usage and condition, and other variables.

[Intelligent Security Camera]
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EDUCATION Solution Map

Classroom : Environment

WindFree™
4 Way Cassette SAC

Air Monitor™

BESPOKE Cube™
Air infinite Line

BESPOKE Jet™

Cleaning Robot

Energizing LED Lighting

Oxygen Generator

SmartThings Pro

Classroom : Education

Interactive Display
(Tizen, Android)

Galaxy Book

Galaxy Chrome Book

Galaxy Tab

Secured by Knox

Faculty Office

SAC 360

Galaxy Book

Note Assist

Galaxy Tab

Secured by Knox   **SmartThings Pro**

Library

LED Signage

Kiosk

Galaxy Tab

Secured by Knox

VXT

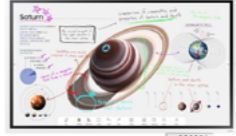## Auditorium

The Wall

FTU

Interactive Display
(Tizen, Android)

Harman AV

VXT

Entrance / Outdoor / Cafeteria

The Wall

Outdoor Signage

Smart Signage

Kiosk

Intelligent Security
Camera

Galaxy Watch

VXT

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WindFree™ SAC

*Availability may vary by country, region, service provider, or device. Please contact your regional sales manager for more details.

WindFree™ Air Conditioner Feature
*Definition: The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) defines "still air" (as in WindFree™ Air Conditioner) as air
  movement lower than 0.15 m/s, with no cold drafts.
*Operating Conditions:
-Outdoor unit: AC140BXAPHH3
-Indoor unit: AC140BN4PBH1 (Panel: PC4NUFK1NW)
-Standard cooling operation: Outdoor (35 ℃ DB / 24 ℃ WB), Indoor (27 ℃ DB / 19 ℃ WB)

WindFree™ Air Conditioner Cleaning Feature
*Test organisms: E. coli and Staphylococcus aureus, each with a sterilization rate of over 99%.
*Test method: Bacterias were sprayed on the surface of the electrostatic precipitator filter for 10 minutes, followed by activation of the clean mode to measure
  sterilization efficiency.
*Verification: The test protocol was validated and conducted under the supervision of Intertek.
*Note: Test results, verified by the international testing and inspection agency Intertek, may vary depending on the actual usage environment.
*Optional feature: Deodorizing filters for brush-type products are available as optional features.
*This is an optional feature.

WindFree™ Air Conditioner Energy-Saving Feature
Motion detection sensor is an optional feature.

Human detection sensor is also optional feature.
*Test model:
-Outdoor unit: AC140MXADNH/EU
-Indoor unit: AC140NN4DKH/EU (Panel: PC4NUFMAN)
*Test conditions: Outdoor (35℃ DB / 24℃ WB), Indoor (27℃ DB / 19℃ WB)
*Energy-saving comparison: Based on an internal test comparing a sensor-equipped model with a non-sensor model over two hours of operation.
-Note: The energy-saving rate is based on internal testing and may vary depending on the actual usage environment and user settings.

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