

Touchscreen Core vs BenQ

At a Glance



Feature	Touchscreen Core	BenQ Board Essential RE 04
Computing		
Processor	Octa-Core (4x A72 + 4x A53)	Octa-Core (4x A73 + 4x A53)
RAM	8 GB	8 GB
Storage	128 GB	64 GB
Device OS		
Operating system	Android 14	Android 13
Google EDLA-certified	✓	✓
Display		
Brightness	Up to 400 cd/m²	Up to 450 cd/m²
Screen type	LED	LED
Hardware		
Type-C ports	2x USB type-C In with 4K Video, Audio, Network and Touch (1x Front 65 W Power Delivery, 1x Side)	2x USB Type-C In with Video, Audio, Network and Touch (1x 65 W Power Delivery, 1x Side)
HDMI ports	3x HDMI In, 1x HDMI Out	3x HDMI In, 1x HDMI Out
USB ports	5x USB (2x 3.0 at Front, 2x 3.0 at Side, 1x 2.0 at Bottom)	4x USB (2x 3.0 , 2x 2.0)
Microphone	Optional wireless microphone with voice amplification and background noise reduction. Also supports 3rd party microphones	3rd party microphones only
NFC card reader	Optional	×
Optional sensors	Motion , Humidity, Temperature, TVOC, and Particulate Matter (PM 2.5) Detection, NFC	×
Audio	2x 20W Speakers	2x 20W Speakers
Touch and Multi-tasking		
Points of touch supported	Up to 40 touch points (Both Windows and Android)	Up to 40 touch points (OS dependent)
Palm rejection	✓	✓
Touch Accuracy	1.5 mm	1 mm
Supported unique touch inputs	4 (Thin pen tip, Thick pen tip, finger, palm)	4 (Thin pen tip, Thick pen tip, finger, palm)
Invoke annotation mode automatically using pen	✓	×
Multi-tasking features	Drag and drop split screen, Multi-window mode	Drag and drop split screen

Software	Touchscreen Core	BenQ Board Essential RE 04
Screen mirroring software	OneScreen Share	BenQ InstaShare 2
Whiteboarding annotation software	OneScreen Write (Premium Features)	BenQ EZWrite 6.0
Remote management	OneScreen Control (Primary) OneScreen Central (Optional) - built by Radix	BenQ X-Sign Broadcast & Device Management Solution
User accounts management	OneScreen AMS	BenQ AMS
AI-based quiz generation tool	OneScreen QuizWiz	×
Lesson builder and lesson repositories software	OneScreen Lessn	×
Closed captions and lesson summaries	OneScreen Scrybe	×
Convert recorded lessons into notes and handouts	OneScreen SuprNotes	×
Push button notifications	OneScreen Beacon*	×

*OneScreen Beacon runs through specialized Beacon cards that need to be purchased separately

Larger Overview

Superior android version and computing power	Featuring the newer, more secure, and future-ready Android 14, Touchscreen Core outpaces the BenQ Essential Board that comes with Android 13. It also has double the storage (128 GB vs 64 GB).
Robust AI-powered tools	Can generate captions, translations, quizzes, lessons, and notes through its AI-powered tools. Also allows sending push notifications.
24/5 Free, live support and training	GURU is available 24/5 for immediate help, support, training and troubleshooting via email, chat, audio or video call, and the GURU app.

Key Advantages

Android 14 with 128 GB storage that future-proofs your investment while being more secure
More USB ports with superior Wi-Fi and Bluetooth technology
An intuitive home screen and streamlined interface enable faster access and effortless navigation
Generates captions, translations, summaries — all with AI and voice input
Creates AI-powered quizzes from text, documents, presentations, and image files that can be exported to any LMS or document file
Includes an AI chatbot, advanced note taking tool, and a circle-to-search option
Offers thousands of pre-made lessons for grades K-12 and an AI-powered lesson builder
Supports NFC login and an array of environmental sensors with an optional sensor box
Includes OneScreen Beacon for real-time push notifications across multiple channels

Full Feature Comparison

Hardware

Description	Touchscreen Core	BenQ Board Essential RE 04
Display and Sound		
Screen sizes	65" / 75" / 86"	65" / 75" / 86"
Screen type	LED	LED
Resolution	4K Ultra HD, 3840 (H) x 2160 (V)	4K Ultra HD, 3840 (H) x 2160 (V)
Aspect ratio	16:9	16:9
Maximum brightness	400 cd/m²	Up to 450 cd/m²
No. of colors	1.07 Billion	1.07 billion
Power consumption (typical)	65": 180 W 75": 170 W 86": 230 W	65": 66.7 W 75": 73.9 W 86": 106.8 W
Static contrast ratio	65": 5000:1 75": 5500:1 86": 1200:1	1200:1
Refresh rate	60 Hz	60 Hz
Viewing angle	178°	178°
Lifespan	>30,000 Hours	>30,000 Hours
Slot for PC	✓	✓
Input ports	3x HDMI In (1x Front, 2x Side)	3x HDMI In
	2x Touch USB (1x Front, 1x Side)	2x Touch USB
	1x Audio In (3.5mm) / VGA Audio in	1x Audio In 3.5mm / VGA Audio In
	1x VGA	1x VGA
	1x Display Port	1x Display Port
	1x OPS Slot	1x OPS Slot
Output ports	1 x Audio Out (3.5 mm)	1x Audio Out (3.5 mm)
	1x S/PDIF Out	1x S/PDIF out
	1x HDMI-Out	1x HDMI-Out
Connectivity	2x USB type-C In with 4K Video, Audio, Network and Touch (1x Front 65 W Power Delivery, 1x Side)	2x USB Type-C In with Video, Audio, Network and Touch (1x 65 W Power Delivery, 1x Side)
	5x USB (2x 3.0 at Front, 2x 3.0 at Side, 1x 2.0 at Bottom)	4x USB (2x 3.0 , 2x 2.0)
	2x RJ45 (Passthrough)	2x RJ45 (Passthrough)
	1x RS232 (DB-9 Connector)	1x RS232 (DB-9 Connector)
	Wi-Fi 6E on 2.4GHz/5GHz/6GHz	Wi-Fi 6 on 2.4GHz/5GHz
	Bluetooth 5.3	Bluetooth 5.2
Product weight	65": 70.7 lbs 75": 92.2 lbs 86": 112.3 lbs	65": 80.2 lbs 75": 110.7 lbs 86": 139.8 lbs
Speakers	2x 20W, front facing speakers with stereo output	2x 20W, front facing speakers with stereo output
Microphone	Optional wireless microphone with voice amplification and background noise reduction. Also supports 3rd party microphones	3rd party microphones only
Sensors	Ambient light, IR Sensor	Ambient light, IR Sensor
Optional sensors	Motion , Humidity, Temperature, TVOC, and Particulate Matter (PM 2.5) Detection, NFC	×
Optional NFC card reader	✓	×

Hardware optimized for card based push button notifications	✔ Supports OneScreen Beacon Service	✕
Surface protection	9H Hardness tempered glass (anti-glare and anti-fingerprint)	✕
Operating system		
Operating system	Android 14 with EDLA Certification	Android 13 with EDLA Certification
CPU	Octa-Core (4x A72 + 4x A53)	Octa-Core (4x A73 + 4x A53)
RAM	8 GB	8 GB
Storage	128 GB	64 GB
App Store	Google Play Store	Google Play Store
Wireless screen Sharing/Mirroring	✔	✔
Over-the-Air (OTA) updates	✔	✔
Google Play services	✔	✔
Touch		
Touch technology	Infrared (with zero bonding Gen 2)	Precision IR
Points of touch supported	Up to 40 touch points (Both Windows and Android)	Up to 40 touch points (OS dependent)
Supported operating systems for touchscreen	Windows, Linux, Mac, Android, and ChromeOS	Windows, Linux, Mac, Android, and ChromeOS
Response time	<5 ms	<5 ms
Touch accuracy	1.5 mm	1 mm
Accessories		
Stylus	2x Magnetic Stylus (antibacterial)	2x Magnetic Stylus
Erasers	1x Whiteboard Magnetic Eraser	1x Whiteboard Magnetic Eraser
Cables	1x Power Cable	1x Power Cable
	1x HDMI Cable (3840x2160 @ 60Hz)	1x HDMI Cable
	✕	1x VGA Cable
	1x USB Touch Cable	1x USB Touch Cable
Remote control	1x	1x
Wall mount	✔	✔
Other Features		
Voice commands	Google Voice Assistant	Google Voice Assistant
Gesture control	✔	✔
Webcam input supported gestures to control touchscreen	✔	✕
Favorite apps shelf for quick access	✔	✔
AI-powered chatbot for assistance	✔	✕
Circle-to-Search	✔ Smart select option for quick and easy searching	✕
Blue-light filter	✔	✔
Light/Dark mode	✔	✔
Customizable buttons on remote controller	✔ 3x Buttons	✕
Accounts mode	✔ Allows to toggle user sign-in only with a guest mode and admin mode for panel managment	✔ Allows to toggle user sign-in only with a guest mode and admin mode for panel managment
Screen recording	✔ Screen, Audio and Video	✔ Screen, Audio and Video

Software

Screen Mirroring		
Included Software	OneScreen Share	InstaShare 2
Supported devices	Android, iOS, Mac, Windows, Linux and ChromeOS	Android, iOS, Mac, Windows, Linux and ChromeOS
Maximum number of devices that can be shared simultaneously	30	9
Share device's screen using browser	✓	✗
Screen sharing across a different network	✓ Optional Upgrade	✗
Share Image/Video/Document from device	✓	✓
Share device's camera feed (Play/Pause)	✓	✓
Floating window of shared screen on the interactive display	✓	✓
Share device's specific window only	✓	✓
Control other devices from the interactive display	✓	✓
Mirroring the interactive display to other devices	✓ Up to 50 devices simultaneously	✓
Control interactive display from other devices	✓	✓
Use mobile phone as a touchpad/remote for the interactive display	✓	✗
Teacher can Launch/Disconnect specific or all of the connected devices	✓	✓
Built-in Annotation tool	✓	✓
Camera and Mic sharing over your personal device	✓	✓
Supports Chromecast, Airplay, Miracast, and DLNA	✓	✓
Whiteboard		
Included Software	OneScreen Write	EZWrite 6.0
Multi-point touch supported	32 touch points	32 touch points
Gesture recognition	Pinch in/out zoom in/out Palm erase	✓
Write on any source	✓	✓
Multiple types of writing tools	✓	✓
Multi colored Pen	✓	✓
Draw shapes	✓	✓
Geometry tools	✓	✓
Shape recognition	✓	✓
Text recognition	✓	✓
Background	Preset Colors / Custom Images	Preset Colors / Custom Images
Pen/Finger detection	✓	✓
Pen type detection	✓	✓
Built-in periodic table	✓	✗
Built-in simulation exercises	✓ Physics, Chemistry, Math, Earth Science, and Biology simulations for K-12 and University.	✗
Repository of thousands of lessons for K-12	✓	✗
Insert advanced formulas	✓	✓
File sharing over Email	✓	✓
File sharing through QR code	✓	✓
File saving to Cloud	✓	✓
Built-in Browser	✓	✓
Drag and drop images from browser	✓	✓
Built-in live support	✓	✗

Personalized User Accounts		
Included Software	OneScreen Account	User Accounts
Multiple accounts	✓	✓
Log in via Google/Microsoft account	✓	✓
Log in with QR code	✓	✓
Google Drive/OneDrive integration	✓	✓
Home page customization (Wallpaper, Widgets, My Apps)	✓	✓
Cloud storage supported	✓	✓
Log in with NFC	Available through the optional sensor box upgrade	✗
Sync device Settings and Wallpapers	✓	✓
Student Engagement Tool		
Included Software	OneScreen Engage	EZWrite 6.0
Create polls	✓	✓
Allow students to vote from their personal devices	✓	✓
Student selector	✓	✗
Allow students to send messages to be displayed on the screen	✓	✓
Educational Software		
Included Software	Oktopus (Optional)	N/A
Dedicated subject-based tools	✓ (Math, Language, Geography, Chemistry, Physics etc.)	✗
Lessons repository	Thousands of lessons designed for K-12 schools, designed as per curriculum of different states in USA	✗
Lesson management system	✓	✗
Classroom collaboration supported	✓	✗
Subject-based games	✓	✗
Collaboration devices OS supported	iOS, Android, MacOS, ChromeOS, Windows	✗
Device Administration		
Included Software	Admin Panel	Settings
USB clone (import/export all the settings from one device to another)	✓	✗
Open default startup item	✓	✗
Kiosk mode (set up any app/webpage as the default startup item)	✓	✗
Auto remove files (delete selected type of files after particular interval)	Documents, Images, Audio, Videos, and Others	✗
Disable USB device/port	✓	✓
Disable device Wi-Fi/Hotspot/Ethernet/Bluetooth	✓	✓
Generate and export debugging logs	✓	✗
Install CA certificates	✓	✓
AI-based Quiz Generation		
Included Software	OneScreen QuizWiz	N/A
Transform text into quiz instantaneously	✓	✗
AI-based MCQs generation	✓	✗
Export quiz to PDF format, text format, or copy to clipboard	✓	✗
Export quiz to Google Forms, LMS (Canvas, Schoology, Moodle, Blackboard), Quizlet, AirTable etc.	✓	✗
User accounts	✓	✗
Select quiz type (MCQs, Fill in the blanks, True or False)	✓	✗
Select quiz difficulty	✓	✗
Select number of questions generated	✓	✗

Save quizzes on account	✓	×
Import content from Google Drive (Google Classroom)	✓	×
Import content through web URL	✓	×
Import content from an image (OCR)	✓	×
Supports multiple languages	✓	×
Translations, Transcriptions, Summaries		
Included Software	OneScreen Scribe	N/A
Live audio transcription	✓	×
Transcription summary	✓	×
Live translation of transcripts	✓	×
Instant AI-based quiz generation of transcription or translation	✓	×
Option to save screen recording with transcription and translation	✓	×
Topic navigation within transcription	✓	×
Comprehensive lecture summary	✓ Including transcription, annotation, voice, on-screen videos and documents	×
Export translation or transcription with summary	✓ As .doc, .txt or .pdf	×
K-12 Educational Lessons/Content		
Included Software	OneScreen Lessn	N/A
Lessons repository	✓ Over 10000 lessons based on national and state standards for K12	×
Availability of multiple subjects	✓ Math, English, Sciences, History, Geography	×
AI-powered lesson builder	✓	×
Diverse content options in lessons	✓ Images/Visuals, Class Activities, and Quiz Questions	×
Option to export	✓ Google Slides, PowerPoint Presentation	×
Remote Device Management		
Included Software	OneScreen Control	X-Sign Broadcast & Device Management Solution
Set triggers and alerts	✓	✓
Track and lock devices	✓	✓
User status	✓	✓
Remotely control power options	✓	✓
Bulk install, delete and disable applications on multiple devices	✓	✓
Workflows	✓	✓
Push alerts, messages and announcements	✓	✓
Smart grouping by class or attributes	✓	✓
Messages to multiple recipients simultaneously	✓	✓
Remotely view or control the device's screen	✓	✓
Push settings and apps to each user account inside the device	✓	×
Update firmware updates Over-the-Air (OTA)	✓	✓
Install security certificates (VPN, Apps, and Wi-Fi)	✓	✓
Account Management		
Included Software	OneScreen AMS	BenQ AMS
Remote creation and management of user accounts	✓	✓
Bulk creation of accounts	✓	✓
Integration with active directory	✓	✓
Multi-tier admin accounts	✓	✓
Panel management for accounts mode	✓	✓

Push Button Notifications		
Included Software	OneScreen Beacon (Optional)	N/A
Types of push button notifications supported	Text messages, emails, and calls	×
Option to customize notifications	✓	×
Details included in notification	Includes badge holder's name, location, date, and time	×
Support for multiple responders for notifications	✓	×
Enable/Disable notifications for users	✓	×
Built-in free, live, unlimited support	✓	×

Support and Training	Touchscreen Core	BenQ Board Essential RE 04
24/5 Support	Live, free 24/5 GURU support available via email, chat, phone, video, audio and the Guru app	✓ Via Email / Calls
Live support within product	Live, free 24/5 GURU support available directly through our product interface and apps	×
Training	✓ Free, unlimited online training with GURU	✓ Demo trainings
Warranty	3-Year Standard Warranty (5-Year Extendable)	3-Year Standard Warranty (5-Year Extendable)
	Advanced Hardware Replacement (Optional)	×

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