

BenQ Board Pro RP8604 RP04 Series (9H.F99TC.DE3)

BenQ Board Pro RP8604 - 86" Diagonal Class RP04 Series LED-backlit LCD display - education - with built-in interactive whiteboard, touchscreen (multi touch) and 8-microphone array - Android - 4K UHD (2160p) 3840 x 2160 - Direct LED - black



The BenQ Board Pro RP8604 offers an 86-inch LED-backlit LCD flat panel display that brings lessons to life in 4K UHD resolution. Designed for the demands of modern education, it combines interactive features like a built-in interactive whiteboard, multi-touch capability, and infrared touch technology with a robust audio system, including a built-in 8-array microphone, two speakers, and a subwoofer, to create an immersive learning environment. With its comprehensive connectivity options, including HDMI, USB-C with Power Delivery, and VGA input, it ensures that a wide range of devices can be connected effortlessly, facilitating a seamless teaching and learning experience. The display is not only about performance but also about sustainability and safety, boasting an ENERGY STAR 8.0 certification, anti-glare and germ-resistant coating, making it a smart choice for educational institutions looking to invest in the future of interactive learning.

Key Selling Points

- 86-inch 4K UHD (2160p) display for stunning image clarity
- Built-in 8-array microphone and powerful speaker system including a subwoofer for clear audio
- 50 touchpoints with infrared touch technology for interactive presentations
- Comprehensive connectivity with HDMI, USB-C, DisplayPort, and more
- ENERGY STAR 8.0 certified for energy efficiency

Product Features

- Enhanced connectivity**
With an array of ports including HDMI, USB-C with 100 W and 65 W Power Delivery, DisplayPort, and VGA input, this device ensures seamless connection to a wide range of peripherals and devices, enhancing productivity and ease of use.
- Immersive audiovisual experience**
Featuring a dynamic contrast ratio of 50000:1, 4K UHD resolution, and a bright 450 cd/m2 display paired with a built-in 8-array microphone, 2 speakers, and a subwoofer, this television offers an audiovisual experience for educational environments.
- Interactive and engaging**
Equipped with infrared touch technology, a built-in interactive whiteboard, and multi-touch capability up to 50 touchpoints, it fosters interactive learning and collaboration, making it an ideal tool for education.
- Durable and reliable**
With a backlight life of 50,000 hours, anti-glare coating, and germ-resistant protection, this display is built to last and maintain clarity and hygiene in high-use settings.
- Smart and connected**
IoT-compatible with Google Assistant, Bluetooth 5.2, NFC, and Wi-Fi connectivity, it integrates seamlessly into smart environments, offering voice control and easy sharing with InstaShare 2.

Main specifications

Product Description	BenQ Board Pro RP8604 RP04 Series - 86" LED-backlit LCD display - 4K - for education
Product Type	LED-backlit LCD flat panel display with built-in interactive whiteboard, touchscreen (multi touch) and 8-microphone array
Diagonal Class	86"
Commercial Use	Yes - education
Colour	Black
Platform	Android
Resolution	3840 x 2160
Display Format	4K UHD (2160p)
Video Interface	HDMI
HDMI Ports Qty	4 ports
Connectivity	LAN, NFC, Wi-Fi, Bluetooth
PC Interface	VGA (HD-15), DisplayPort
Technology	IPS
LCD Backlight Technology	Direct LED
Image Aspect Ratio	16:9
TV Tuner	No tuner

Commercial Features	OPS Slot
Picture Enhancements	72% Colour Gamut NTSC
Speaker System	2 speakers, subwoofer
Intelligent Assistant	Google Assistant (not available for some languages and countries)
Storage Capacity	64 GB
USB	Yes
Included Accessories	Remote control, 2 styluses
Voltage	AC 100-240 V (50/60 Hz)
Power Consumption Operational	164.4 watt
Power Consumption Stand by	0.5 watt
Dimensions (WxDxH)	195.7 cm x 11.77 cm x 120.05 cm
Weight	64.7 kg
Environmental Standards	ENERGY STAR Qualified
Manufacturer Warranty	3-year warranty

Extended specification

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	10 - 90% RH (non-condensing)

General

Product Type	LED-backlit LCD flat panel display
Power Consumption (Max)	619.6 watt
Power Consumption Operational	164.4 watt
Diagonal Class	86"
Commercial Use	Yes - education
Combined With	Built-in interactive whiteboard, touchscreen (multi touch) and 8-microphone array
Series	RP04 Series
Platform	Android
Operating System	Android OS 13
TV Tuner	No tuner
TV Tuner Presence	No
Sensors	NFC sensor, ambient light sensor (ALS), Infrared (IR), motion sensor, air quality sensor
Video Interface	HDMI
HDMI Ports Qty	4 ports
PC Interface	VGA (HD-15), DisplayPort
Modes	Landscape mode
Picture Enhancements	72% Colour Gamut NTSC
Protection	Germ-resistant
Width	195.7 cm
Depth	11.77 cm
Height	120.05 cm
Weight	64.7 kg
Enclosure Colour	Black

Power

Power Device	Power supply
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Input Voltage	AC 100-240 V (50/60 Hz)
Power Consumption Stand by	0.5 watt

Sustainability Information

ENERGY STAR Certified	Yes
ENERGY STAR Version	8.0

Network & Internet Multimedia

Connectivity	LAN, NFC, Wi-Fi, Bluetooth
LAN Protocol	Gigabit Ethernet
Wi-Fi Protocol	802.11ax
Bluetooth Version	Bluetooth 5.2
Connect & Share	InstaShare 2

Display

LCD Display Technology	IPS
Pixel Pitch	0.49 mm
Resolution	3840 x 2160
Display Format	4K UHD (2160p)
Image Aspect Ratio	16:9
LCD Backlight Technology	Direct LED
Coating	Anti-glare, 9H Hard, 25% haze
Image Contrast Ratio	1200:1
Dynamic Contrast Ratio	50000:1
Brightness	450 cd/m ²
Viewing Angle	178 degrees
Viewing Angle (Vertical)	178 degrees
Touchpoints Qty	50
Response Time	8 ms
Backlight Life	50,000 hour(s)
Commercial Features	OPS Slot
Operation Hours / Days	18 / 7
Features	10-bit support, infrared touch technology, built-in air ioniser, EZWrite Software, Device Management Solution (DMS), Account Management System (AMS), BenQ ClassroomCare solutions, Flicker free technology, zero bonding technology

Dimensions & Weight (Shipping)

Width (Shipping)	211 cm
Depth (Shipping)	20.5 cm
Height (Shipping)	129.1 cm
Weight (Shipping)	79.6 kg

Stands & Mounts

Wall Mount Included	Yes
Flat Panel Mount Interface	800 x 600 mm
VESA Compatibility	Yes

Media Player

USB Port	Yes
Configuration	4 x ARM Cortex-A78 + 4 x ARM Cortex-A55 - 8 GB - 64 GB - Mali G57 MC5

Internet of Things (IoT)

Internet of Things (IoT) Compatible	Yes
Intelligent Assistant	Google Assistant (not available for some languages and countries)

Remote Control

Type	Remote control
Features	Voice control

Audio System

Speaker System	2 speakers, subwoofer
Features	Built-in 8-array microphone
Speakers	2 x main channel speaker - 20 watt 1 x subwoofer - 16 watt

Miscellaneous

Included Accessories	2 styluses
Cables Included	VGA cable - 3 m HDMI cable - 3 m USB touch cable - 3 m USB-C cable - 1.5 m
Compliant Standards	Google EDLA, DisplayPort 1.2a, Eyesafe Certified 2.0, TUV Rheinland, SIAA, IEC 60529 IP5X, SGS

Manufacturer Warranty

Service & Support	Limited warranty - exchange - 3 years - on-site
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Connections

Connector Type	4 x HDMI input HDMI output DisplayPort USB 2.0 7 x USB 3.0 USB-C with 100W Power Delivery USB-C with 65W Power Delivery 3 x touch Audio line-in Audio line-out 2 x USB-C 3.0 2 x LAN RS-232 SPDIF output VGA input Microphone
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What's in the box

- BenQ Board Pro RP8604
- Remote control
- VGA cable - 3 m
- HDMI cable - 3 m
- USB touch cable - 3 m
- USB-C cable - 1.5 m
- Wall mount
- 2 styluses

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