

# BenQ Board ESSENTIAL series



## 4-core SoC

High configuration interactive display



## Android 11

Versatile and powerful



## 40W Built-in Speaker

Loud and clear



## 40 Touch Points

Unleash your creativity



## 5-in-1 Type-C 15W PD

Display, audio, touch, data, and 15W power charging



ClassroomCare®



## SIAA Certified for Touchscreen

Antimicrobial property, safety, and appropriate



## Germ-Resistant, Eyecare solutions

Safe-to-Touch for touchscreen, touch pen  
Eyecare for Low Blue Light, Flicker Free



## IP5X Dust Proof

To ensure consistent operation

## DISPLAY

|                        |                  |
|------------------------|------------------|
| Diagonal Size          | 65", 75", 86"    |
| Display Technology     | Zero Bonding     |
| Backlight              | DLED             |
| Aspect Ratio           | 16:9             |
| Resolution             | 3840 x 2160 (4K) |
| Brightness (typical)   | 450 cd/m2        |
| Contrast Ratio         | 1200:1           |
| Dynamic Contrast Ratio | 30000:1          |
| LCD Viewing Angle      | 178°/178°        |

|                           |                      |
|---------------------------|----------------------|
| Panel Refresh Rate        | 60 Hz                |
| Response Time             | ≤8 ms                |
| Panel Bit                 | 8-bit                |
| Panel Lifespan            | ≥50,000 hours        |
| Operating Hour            | 18/7                 |
| Glass Hardness            | 9H                   |
| Glass Type                | Heat-tempered 3.2 mm |
| Germ-Resistant Technology | Nano-ionic silver    |
| Panel Surface             | Anti-Glare, Haze 3%  |
| Display Orientation       | Landscape            |

**TOUCH**

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Touch Technology         | Fine IR+                                                                |
| Accuracy                 | ±1.0 mm                                                                 |
| Max Touch Points         | 40 for Windows®, 32 for Android                                         |
| Touch Resolution         | 32768 x 32768 px                                                        |
| Object Recognition Range | ≥ 3 mm                                                                  |
| Touch Response Time      | < 10 ms                                                                 |
| Touch Interface          | USB-B 2.0 x 2                                                           |
| Compatibility            | Windows11/Windows10/Windows8/Windows7/<br>macOS x 11 or above/Chrome OS |

**COMPUTING**

|                  |                     |
|------------------|---------------------|
| Operating System | Android 11          |
| CPU              | Quad-Core (A55 x 4) |
| GPU              | Mali™-G52 2EE MC1   |
| Memory           | 4GB                 |
| Storage          | 32GB                |

**AUDIOVISUAL**

|                  |                             |
|------------------|-----------------------------|
| Built-in Speaker | 40 Watts (20 W x 2)         |
| Array Microphone | x 8 (Max. pickup range: 8M) |
| Camera           | Optional                    |

**CONNECTIVITY**

|                                                        | Front | Rear                                               | Top |
|--------------------------------------------------------|-------|----------------------------------------------------|-----|
| HDMI In 2.0                                            | x 1   | x 2                                                |     |
| HDMI Out                                               |       | NA                                                 |     |
| Display port 1.2a                                      |       | x 1                                                |     |
| VGA In                                                 |       | x 1                                                |     |
| VGA Audio In                                           |       | x 1                                                |     |
| USB-A 3.0<br>(High speed data transfer & power supply) | x 1   | x 2                                                |     |
| USB-A 2.0                                              | x 1   |                                                    |     |
| USB-B 2.0 (Touch)                                      | x 1   | x 1                                                |     |
| USB Type-C 2.0 (5-in-1, 15W PD)                        | x 1   |                                                    |     |
| USB Type-C 3.0 (Data transfer)                         |       | NA                                                 |     |
| Mic In (3.5 mm)                                        | NA    |                                                    |     |
| RS232                                                  |       | x 1                                                |     |
| Earphone (3.5 mm)                                      |       | x 1                                                |     |
| SPDIF (optical)                                        |       | x 1                                                |     |
| Power (AC) Inlet                                       |       | x 1                                                |     |
| OPS Slot                                               |       | x 1                                                |     |
| Wake-on-LAN                                            |       | Yes                                                |     |
|                                                        |       | x 2                                                |     |
| LAN In/Out (RJ45)                                      |       | OPS: 10/100/1000 Mbps<br>Android: 10/100/1000 Mbps |     |
| Wi-Fi                                                  |       | Optional                                           |     |

**SENSORS**

|                           |     |
|---------------------------|-----|
| NFC Sensor                | NA  |
| Motion Sensor             | NA  |
| Air Ionizer               | NA  |
| Indoor Air Quality Sensor | NA  |
| Light Sensor              | x 1 |
| IR receiver               | x 1 |

**POWER**

|                             |                                 |
|-----------------------------|---------------------------------|
| Power Supply                | AC 100 to 240V, 50 to 60 Hz     |
| Power consumption (typical) | 65": 124W; 75": 135W; 86": 141W |

**DISPLAY LANGUAGES**

English/French/German/Dutch/Polish/Russian/Czech/Danish/Swedish/Italian/  
Romanian/Finnish/Norwegian/Greek/Hungarian/Spanish/Portuguese/Turkish/  
Traditional Chinese/Simplified Chinese/Arabic/Japanese/Thai/Persian/Korean/  
Vietnamese/ Indonesian/Hebrew (28L)

**SOFTWARE/SOLUTIONS**

|                                             |                  |
|---------------------------------------------|------------------|
| Device Management Solution                  | DMS 3.0          |
| Account Management Solution                 | AMS              |
| Broadcasting Solution                       | X-Sign Broadcast |
| Wireless Casting Solution                   | InstaShare 2     |
| Whiteboarding Solution                      | EZWrite 6        |
| Floating Tool                               | Yes              |
| Class Recording                             | Yes              |
| Scalable canvas                             | Yes              |
| Handwriting recognition                     | 50+ Languages    |
| Co-annotation via intranet                  | Cloud Whiteboard |
| Co-annotation via internet<br>(Web browser) | EZWrite 6 Web    |

**ACCESSORIES**

Remote Control, Power Code (By Region), Stylus x 2, Quick Start Guide, Regulation  
Sheet, Touch USB Cable, HDMI Cable, VGA (D-sub 15pin) Cable, Type-C Cable,  
Wall Mount

| Model                          | RE6503A                    | RE7503A                    | RE8603A                    |
|--------------------------------|----------------------------|----------------------------|----------------------------|
| Dimension (WxHxD)              | 1484.5×908.1×90 mm/        | 1705.7×1032.3×90.2 mm/     | 1953×1172.3×90.2 mm/       |
| (Without Packing/With Packing) | 1620×1030×195 mm           | 1880×1160×195 mm           | 2090×1285×215 mm           |
| Net Weight/Gross Weight        | 38.6 kg/51.9 kg            | 50.4 kg/66.5 kg            | 63.1kg/81.1kg              |
| VESA Mount/Screws              | 600 x 400 mm/4 - M8 x 25mm | 800 x 400 mm/4 - M8 x 25mm | 800 x 400 mm/4 - M8 x 25mm |



