



# Samsung SMART Signage

## QBN Series

Bring Creative Content Ideas to Life through Intelligent Picture Quality

Samsung's QBN Series displays deliver content with added precision and visual impact while also improving operational efficiency. Through advanced UHD picture quality, the QBN Series displays foster an inviting and memorable viewing environment in any indoor setting. Additionally, Backed by the powerful TIZEN operating system, the QBN Series displays feature a host of business-ready functionalities while also protecting business and customer data through enhanced security measures.

### Highlights

- Revitalize customer engagement in retail and transportation settings
- Elevate content quality through a unique combination of picture-enhancing features
- Facilitate secure, PC-free meetings through rigid three-layer protection
- Manage performance and identify potential disruptions with detailed remote monitoring
- Maintain content integrity through dust-resistant exterior glass

**SAMSUNG**

## Industry Trend

As businesses seek to extend viewer engagement and reinforce their own branding, many see advanced digital signage as a versatile and effective solution. Businesses want to showcase content as crisply and clearly as possible, with new innovations such as UHD picture quality offering customers something new and exciting. Beyond graphic precision and accuracy, businesses also seek new technologies that make their lives easier. This flexibility ranges from features that expand operational capabilities and reduce maintenance to the maximization of data security and protection.

## Why Samsung QBN Series?

As more businesses turn to UHD displays for differentiation, Samsung's QBN Series offers the ideal customer engagement forum. The QBN Series is programmed with Samsung's Intelligent Picture Quality abilities, including its three core technologies: Intelligent UHD, Intelligent Picture Mode and Intelligent HDR+. The Intelligent PQ capabilities create the ideal platform for businesses to display elite content. Recent advancements have made our signage offerings even stronger and empower businesses to develop and deploy content with the confidence that it will perform continuously.

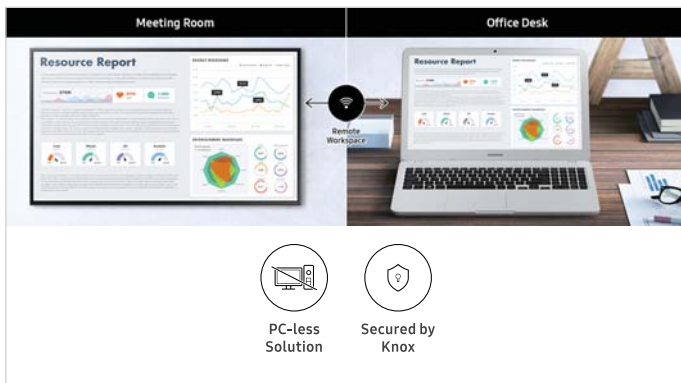


## Key Features



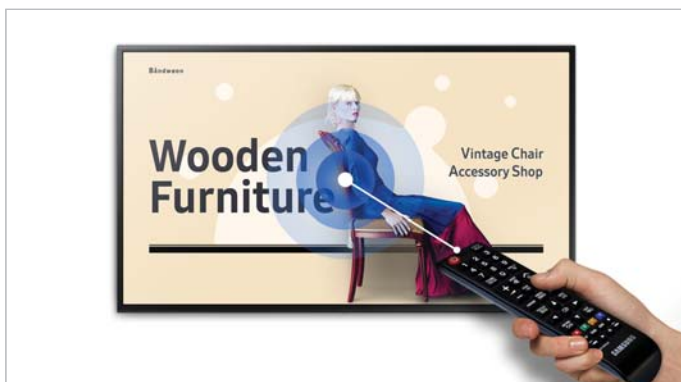
### Share Intelligent, High-Quality Content

The QBN Series displays leverage Samsung's Intelligent Picture Quality technology to elevate content delivery in any setting. This refined presentation transforms content from any source to UHD-level quality, and optimizes on-screen text and imagery with crisp edges and fine detail.



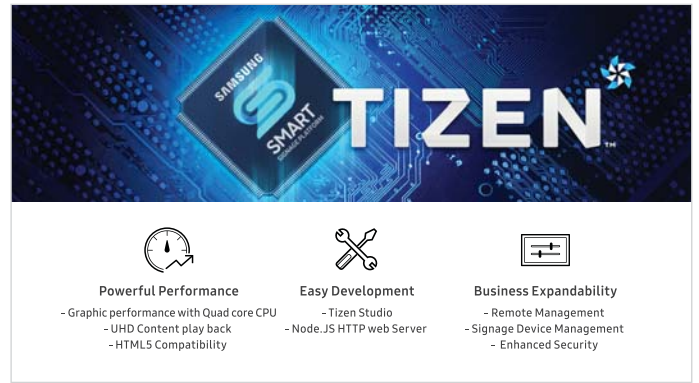
### Empower Secure and Remote Collaboration

Samsung's KNOX platform provides rigid three-layer protection while also securing and controlling USB and user network exchange through dedicated signage device management. With added security, businesses can facilitate remote, PC-free meetings without risk or complexity.



### Enjoy Convenient Display Management

The QBN Series' integrated centralized infrared receiver (IR) ensures easier and more flexible user control. Each display receives signals on individual panels via Central IR, and users can navigate the IR functionality from various locations to further augment uninterrupted performance.



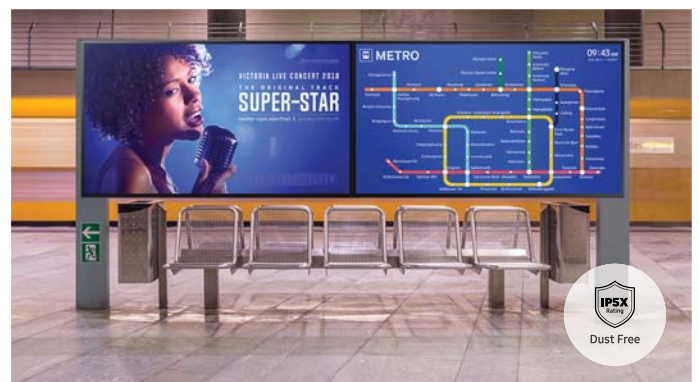
### Streamline Operational Efficiency

The embedded MagicINFO Player S6, backed by the powerful TIZEN operating system, boosts the displays overall performance, allows for painless content management and ensures seamless content transition and playback.



### Maintain Continuous Display Performance

Beyond security and content management, QBN Series users can trust the displays' remote management for fast, efficient issue mitigation. Users can monitor and diagnose irregularities – both on their own and with help from Samsung's Network Operations Center – from any location.



### Shield Content from Outside Interference

The QBN Series' durable, IP5x-validated design ensures continuous content delivery regardless of environmental conditions. As a result, transportation hubs and other arenas susceptible to dust, dirt and lighting exposure can activate and run the displays without an external enclosure.

Specification

| MODEL           |                                 |                                | QB43N                                                                                                                               | QB49N                             | QB55N                             | QB65N                             | QB75N                           |
|-----------------|---------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| Panel           | Diagonal Size                   | Class                          | 43                                                                                                                                  | 49                                | 55                                | 65                                | 75                              |
|                 |                                 | Measured                       | 42.5                                                                                                                                | 48.5                              | 54.6                              | 64.5                              | 74.5                            |
|                 | Type                            |                                | New Edge                                                                                                                            | New Edge                          | New Edge                          | New Edge                          | New Edge                        |
|                 | Resolution                      |                                | UHD (3840 x 2160)                                                                                                                   | UHD (3840 x 2160)                 | UHD (3840 x 2160)                 | UHD (3840 x 2160)                 | UHD (3840 x 2160)               |
|                 | Pixel Pitch (mm)                |                                | 0.2451 x 0.2451                                                                                                                     | 0.093 x 0.279                     | 0.105 x 0.315                     | 0.372 x 0.372                     | 0.42975 x 0.42975               |
|                 | Active Display Area             |                                | 941.184 (H) x 529.416 (V)                                                                                                           | 1073.78 (H) x 604.00 (V)          | 1209.6 (H) x 680.4 (V)            | 1428.48 (H) x 803.52 (V)          | 1650.24 (H) x 928.26 (V)        |
|                 | Brightness (Typ.)               |                                | 350                                                                                                                                 | 350                               | 350                               | 350                               | 350                             |
|                 | Contrast Ratio (Typ.)           |                                | 5000 : 1                                                                                                                            | 4000 : 1                          | 4000 : 1                          | 6000 : 1                          | 6000 : 1                        |
|                 | Viewing Angle (H/V)             |                                | 178 / 178                                                                                                                           | 178 / 178                         | 178 / 178                         | 178 / 178                         | 178 / 178                       |
|                 | Response Time (G to G)          |                                | 8ms                                                                                                                                 | 8ms                               | 8ms                               | 8ms                               | 8ms                             |
|                 | Display Colors                  |                                | 16.7M                                                                                                                               | 16.7M                             | 16.7M                             | 16.7M                             | 16.7M                           |
|                 | Color Gamut                     |                                | 72%                                                                                                                                 | 72%                               | 72%                               | 72%                               | 72%                             |
| Display         | Operation Hour                  |                                | 16 / 7                                                                                                                              | 16 / 7                            | 16 / 7                            | 16 / 7                            | 16 / 7                          |
|                 | Haze                            |                                | 0%                                                                                                                                  | 2%                                | 2%                                | 2%                                | 2%                              |
|                 | Dynamic C/R                     |                                | MEGA                                                                                                                                | MEGA                              | MEGA                              | MEGA                              | MEGA                            |
|                 | H-Scanning Frequency            |                                | 30 ~ 81kHz                                                                                                                          | 30 ~ 81kHz                        | 30 ~ 81kHz                        | 30 ~ 81kHz                        | 30 ~ 81kHz                      |
| Sound           | V-Scanning Frequency            |                                | 48 ~ 75Hz                                                                                                                           | 48 ~ 75Hz                         | 48 ~ 75Hz                         | 48 ~ 75Hz                         | 48 ~ 75Hz                       |
|                 | Maximum Pixel Frequency         |                                | 594MHz                                                                                                                              | 594MHz                            | 594MHz                            | 594MHz                            | 594MHz                          |
| Connectivity    | Speaker Type                    |                                | Built in Speaker (10W + 10W)                                                                                                        |                                   |                                   |                                   |                                 |
|                 | INPUT                           | DVI-D                          | DVI-D                                                                                                                               | DVI-D                             | DVI-D                             | DVI-D                             | DVI-D                           |
|                 |                                 | VIDEO                          | HDMI 2.0 (2)                                                                                                                        | HDMI 2.0 (2)                      | HDMI 2.0 (2)                      | HDMI 2.0 (2)                      | HDMI 2.0 (2)                    |
|                 |                                 | HDCP                           | HDCP2.2                                                                                                                             | HDCP2.2                           | HDCP2.2                           | HDCP2.2                           | HDCP2.2                         |
|                 |                                 | AUDIO                          | Stereo Mini Jack, DVI/HDMI/Audio(Common)                                                                                            |                                   |                                   |                                   |                                 |
|                 | OUTPUT                          | USB                            | USB 2.0 x 2                                                                                                                         | USB 2.0 x 2                       | USB 2.0 x 2                       | USB 2.0 x 2                       | USB 2.0 x 2                     |
|                 |                                 | RGB                            | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 |                                 | VIDEO                          | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 |                                 | AUDIO                          | Stereo mini Jack                                                                                                                    | Stereo mini Jack                  | Stereo mini Jack                  | Stereo mini Jack                  | Stereo mini Jack                |
|                 |                                 | Power Out                      | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 |                                 | USB                            | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 | EXTERNAL CONTROL                |                                | RS232C (in/out) thru stereo jack, RJ45                                                                                              |                                   |                                   |                                   |                                 |
|                 | EXTERNAL SENSOR                 |                                | IR                                                                                                                                  | IR                                | IR                                | IR                                | IR                              |
|                 | Tuner                           |                                | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 | Type                            |                                | Internal                                                                                                                            | Internal                          | Internal                          | Internal                          | Internal                        |
| Power           | Power Supply                    |                                | AC 100-240 V~(+/- 10%), 50/60 Hz                                                                                                    |                                   |                                   |                                   |                                 |
|                 | Power Consumption               | Max [W/h]                      | 121                                                                                                                                 | 132                               | 143                               | 176                               | 220                             |
|                 |                                 | Typical [W/h]                  | 76                                                                                                                                  | 91                                | 96                                | 125                               | 159                             |
|                 |                                 | Rating [W/h]                   | 110                                                                                                                                 | 120                               | 130                               | 160                               | 200                             |
|                 |                                 | Sleep mode                     | 0.5                                                                                                                                 | 0.5                               | 0.5                               | 0.5                               | 0.5                             |
|                 |                                 | Off mode                       | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
| Mechanical Spec | Dimension (mm)                  | Set                            | 970.2 x 563.2 x 58.5                                                                                                                | 1102.8 x 637.8 x 59.4             | 1238.6 x 714.2 x 59.0             | 1457.5 x 837.3 x 59.4             | 1684.6 x 966.7 x 60.4           |
|                 |                                 | Package                        | 943.2 x 531.4 x 1081.5                                                                                                              | 1075.8 x 606.0 x 1233.7           | 1211.6 x 682.4 x 1389.4           | 1430.5 x 805.5 x 1640.6           | 1652.2 x 930.3 x 1895.0         |
|                 | Weight (kg)                     | Set                            | 10                                                                                                                                  | 13.5                              | 17.8                              | 25.2                              | 37.8                            |
|                 |                                 | Package                        | 13.3                                                                                                                                | 17.7                              | 22.4                              | 33.1                              | 50.6                            |
|                 | VESA Mount                      |                                | 200 x 200                                                                                                                           | 200 x 200                         | 200 x 200                         | 400 X 400                         | 400 X 400                       |
|                 | Protection Glass                |                                | N/A                                                                                                                                 | N/A                               | N/A                               | N/A                               | N/A                             |
|                 | Stand Type                      |                                | Foot Stand (Optional)                                                                                                               | Foot Stand (Optional)             | Foot Stand (Optional)             | No                                | No                              |
|                 | Bezel Width (Top/Side/Bot) (mm) |                                | 13.5 (Top,Side),<br>17.7 (Bottom)                                                                                                   | 13.5 (Top,Side),<br>17.7 (Bottom) | 13.5 (Top,Side),<br>17.7 (Bottom) | 13.5 (Top,Side),<br>17.7 (Bottom) | 16.2(top,side),<br>19.3(bottom) |
| Operation       | Operating Temperature           |                                | 0°C ~ 40°C                                                                                                                          | 0°C ~ 40°C                        | 0°C ~ 40°C                        | 0°C ~ 40°C                        | 0°C ~ 40°C                      |
|                 | Humidity                        |                                | 10 ~ 80%                                                                                                                            | 10 ~ 80%                          | 10 ~ 80%                          | 10 ~ 80%                          | 10 ~ 80%                        |
| Feature         | Key                             |                                | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0                                                       |                                   |                                   |                                   |                                 |
|                 | Special                         | H/W                            | Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x, Wi-Fi                    |                                   |                                   |                                   |                                 |
|                 |                                 | S/W                            | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)                             |                                   |                                   |                                   |                                 |
|                 |                                 | Processor                      | Coretex A72 1.7GHz Quad-Core CPU                                                                                                    |                                   |                                   |                                   |                                 |
|                 |                                 | On-Chip Cache Memory           | L1 Instruction Cache : 48KB / L1 Data Cache : 32KB / L2 Cache : 2MB                                                                 |                                   |                                   |                                   |                                 |
|                 |                                 | Clock Speed                    | 1.7GHz                                                                                                                              |                                   |                                   |                                   |                                 |
|                 |                                 | Main Memory Interface          | 2.5GB / LPDDR4 1.5GHz 64bit                                                                                                         |                                   |                                   |                                   |                                 |
|                 |                                 | Internal Player (Embedded H/W) | Graphic resolution : 1920x1080,<br>Output resolution : 3840x2160 (Scale up from graphic processing result.)                         |                                   |                                   |                                   |                                 |
|                 |                                 | Storage (FDM)                  | 8GB (3.88GB Occupied by O/S, 4.12GB Available)                                                                                      |                                   |                                   |                                   |                                 |
|                 |                                 | Multimedia                     | *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG |                                   |                                   |                                   |                                 |
|                 |                                 | IO Ports                       | USB 2.0                                                                                                                             |                                   |                                   |                                   |                                 |
|                 |                                 | Operating System               | Tizen 4.0 (VDLinux)                                                                                                                 |                                   |                                   |                                   |                                 |
| Certification   | Safety                          |                                | 60950-1                                                                                                                             |                                   |                                   |                                   |                                 |
|                 | EMC                             |                                | Class A                                                                                                                             |                                   |                                   |                                   |                                 |
| Accessories     | Environment                     |                                | ENERGY STAR 7.0 (USA)                                                                                                               |                                   |                                   |                                   |                                 |
|                 | Included                        |                                | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries                                                          |                                   |                                   |                                   |                                 |
|                 | Optional                        | Stand Mount                    | New Stand Accessory                                                                                                                 |                                   |                                   |                                   |                                 |
|                 |                                 | Specialty Media Player         | WMN4070SE<br>CML400XX<br>N/A                                                                                                        |                                   |                                   |                                   |                                 |

About Samsung Electronics Co., Ltd.

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