



Samsung SMART Signage QBR Series

Display any content in ultra-high definition with incredibly rich color on slim, efficient signage.

About Samsung Electronics Co., Ltd.

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SMART Signage

For more information about Samsung SMART Signage QBR Series Displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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Through intelligent UHD upscaling technology, Samsung's QBR series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. Backed by Tizen 4.0, the QBR series also provides reinforced capability with multiple web formats and secured protection. Additionally, its new slim design simplifies wall mounting and ensures seamless installation.

Highlights

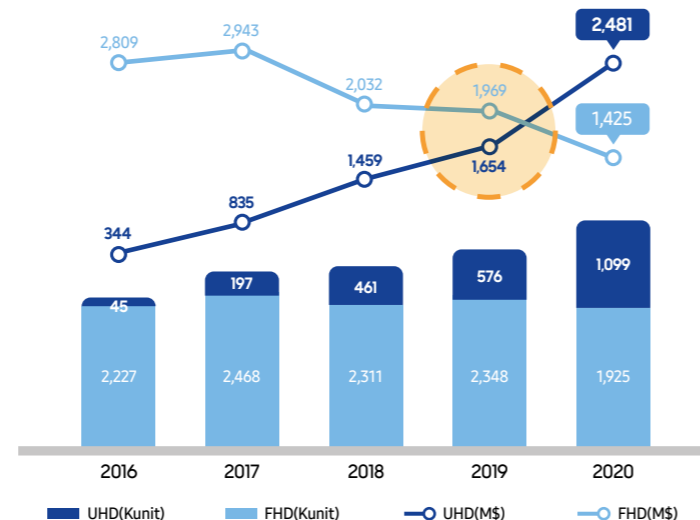
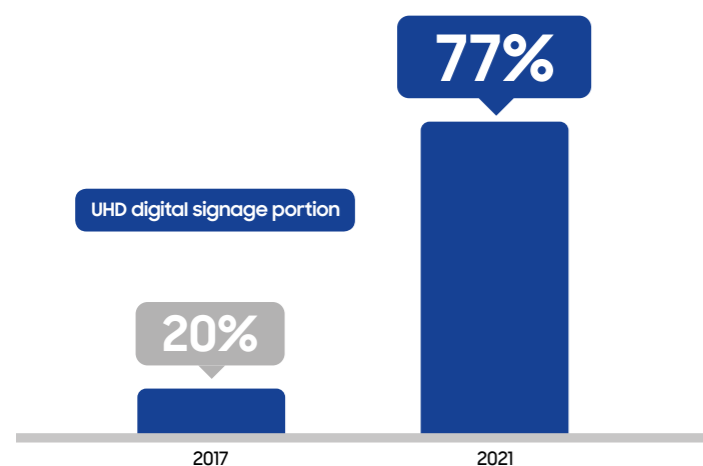
- Engage customers with lifelike images through ultra high-definition resolution
- Deliver UHD-level picture quality even with lower resolution content through innovative UHD upscaling technology and unique picture-enhancing features
- Dynamic Crystal Color allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- New symmetrical, slim design simplifies installation and complements any environment.
- Secure, PC-free operation through Knox and rigid three-layer protection

Industry trend

With visual display technology improving across devices, viewers have developed an ever-growing expectation for better picture quality. Additionally, the market has been flooded with a wide variety of color technologies and it's becoming increasingly important for businesses to have rich and vivid display capabilities. As UHD resolution continues to grow in popularity, it is essential for businesses to deliver superb picture quality for their customers. Low quality displays and signage can create negative perceptions of a business. While much content is still being produced at a lower resolution, through Intelligent UHD upscaling technology, Samsung's QBR series is able to upscale even the lowest resolution content to UHD picture quality standards.

UHD resolution is must-have feature in the future

UHD sales forecasted to exceed FHD in 2019



* Source : IHS '18.2Q Final+Forecast(\$)

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* Note : Standalone digital signage only
Consumer TVs, along with Commercial Lite and Hospitality TVs used for signage are excluded.

Why Samsung's QBR series?

Samsung's superior visual display technology has positioned them as the industry leader in the digital signage market for a decade and in the TV market for 12 years. As an expert in picture quality in the display industry, Samsung is able to deliver best-in-class picture quality through their new QBR series. The signage provides rich and flawless colors, sleek and durable design, powerful performance through Tizen 4.0 and secured protection. Samsung's QBR series is also able to upscale even the lowest resolution content to UHD picture quality. For commercial displays, this technology advancement means highly visible signage with unmatched accuracy to help capture the attention of potential customers. It also means savings both in cost and time for businesses who can produce content more inexpensively at a lower resolution and still display it in stunning UHD quality.

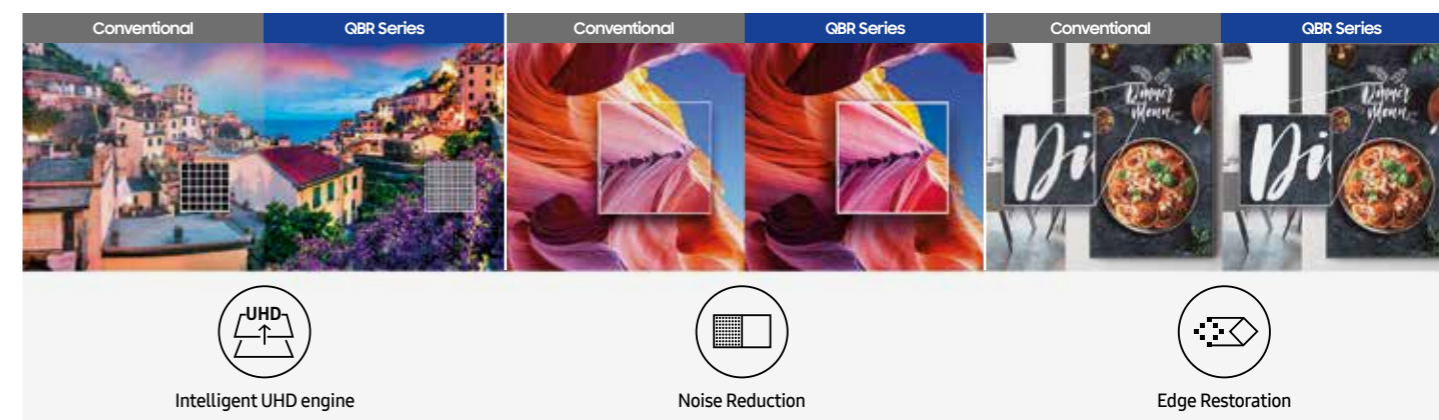


Key features



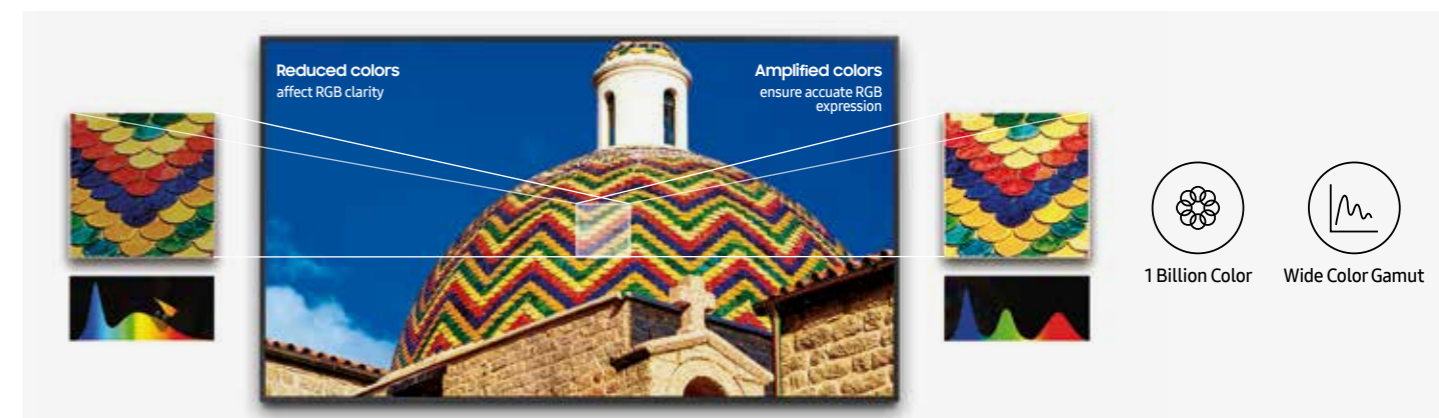
Incredible 4K picture quality

Samsung's new QBR series is able to capture customer attention by providing an incredibly clear picture, showcasing lifelike images and intricate details better than ever before thanks to ultra high-definition 4K resolution.



Intelligent UHD upscaling

Samsung's global leadership in display technology and picture quality spans more than a decade. Thanks to superior semi-conductor technology, Samsung has developed the most powerful video processor available. Additionally, intelligent UHD upscaling technology is a cutting-edge solution based on Samsung's proprietary intelligent UHD engine that allows content developed at a lower resolution to be elevated to UHD-level quality. It also performs edge restoration and noise reduction to optimize on-screen text and imagery with crisp edges and fine detail.



Dynamic crystal color

Dynamic Crystal Color is what brings the incredible, lifelike color to Samsung displays. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors — up to a billion different shades — capturing subtle differences for flawless color expression, critical to businesses in ensuring brand consistency across communication channels. The QBR series also features HDR10+ functionality that converts standard definition (SDR) content to HDR quality for sharper contrast and more vivid colors.

Key features



Slim and symmetrical design

The all-new slim and symmetrical design of the QBR series significantly simplifies wall mounting the display and ensures installation is a seamless process. The display's power inlet direction has been redesigned to sit flush against the wall. The new design sets guarantees a long life cycle ensuring the QBR series will stand the test of time.



Powerful, all-in-one solution

The Samsung SMART Signage Platform (SSSP) is an open-source, all-in-one solution embedded in Samsung SMART signage that simplifies installation and maintenance. With SSSP, there is no need for any external devices to communicate with the server or play digital media enjoying easy development, reinforced capability with multi-ple web formats, and secured protection.

Clean cable management

In a corporate or retail environment, the back of a display is often visible to customers. With the QBR series' new cable guide feature retailers can tuck messy cables away from view. This allows for a clean and more visually-appealing customer shopping experience.



Wi-Fi and Bluetooth built-in

The QBR series features a nearly endless range of business use-cases thanks to built-in Wi-Fi and Bluetooth. Wireless connectivity allows for personalized and interactive services including enabling integration with beacon technology in store, while also simplifying how businesses showcase content.

* Image is for illustrative purposes only, specific application or program may have to be developed for the depicted usage scenario.

Specifications

| Model | | QB43R | QB49R | QB55R | QB65R | QB75R | |
|-----------------|---------------------------------|---|---|---|---|---|---|
| Panel | Diagonal Size | 43 | 49 | 55 | 65 | 75 | |
| | Class | 42.5 | 48.5 | 54.6 | 64.5 | 74.5 | |
| | Type | Edge LED BLU | Edge LED BLU | Edge LED BLU | Edge LED BLU | Edge LED BLU | |
| | 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 928.52 (V) | 1650.24 (H) x 928.26 (V) | |
| | Brightness(Typ.) | 350 | 350 | 350 | 350 | 350 | |
| | Contrast Ratio (Typ.) | 5000:1 | 4700:1 | 4700:1 | 4000:1 | 4000:1 | |
| | Viewing Angle(H/V) | 178/178 | 178/178 | 178/178 | 178/178 | 178/178 | |
| | Response Time (G to G) | 8ms(Typ.) | 8ms(Typ.) | 8ms(Typ.) | 8ms(Typ.) | 8ms(Typ.) | |
| | Display Colors | 16.7M | 16.7M | 16.7M | 16.7M | 16.7M | |
| | Color Gamut | 92% | 92% | 92% | 92% | 92% | |
| Operation Hour | 16/7 | 16/7 | 16/7 | 16/7 | 16/7 | | |
| Haze | 2% | 2% | 2% | 2% | 2% | | |
| Display | Dynamic C/R | MEGA | MEGA | MEGA | MEGA | MEGA | |
| | H-Scanning Frequency | 30 ~ 81kHz | 30 ~ 81kHz | 30 ~ 81kHz | 30 ~ 81kHz | 30 ~ 81kHz | |
| | V-Scanning Frequency | 48 ~ 75Hz | 48 ~ 75Hz | 48 ~ 75Hz | 48 ~ 75Hz | 48 ~ 75Hz | |
| | Maximum Pixel Frequency | 594MHz | 594MHz | 594MHz | 594MHz | 594MHz | |
| Sound | Speaker Type | Built in Speaker(10W + 10W) | Built in Speaker(10W + 10W) | Built in Speaker(10W + 10W) | Built in Speaker(10W + 10W) | Built in Speaker(10W + 10W) | |
| | INPUT | RGB VIDEO HDCP AUDIO USB | DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common) USB 2.0 x 2 | DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common) USB 2.0 x 2 | DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common) USB 2.0 x 2 | DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common) USB 2.0 x 2 | DVI-D HDMI 2.0 (2) HDCP 2.2 Stereo Mini Jack, DVI/HDMI/Audio(Common) USB 2.0 x 2 |
| Connectivity | OUTPUT | RGB VIDEO AUDIO Power Out USB | N/A N/A Stereo Mini Jack N/A | N/A N/A Stereo Mini Jack N/A | N/A N/A Stereo Mini Jack N/A | N/A N/A Stereo Mini Jack N/A | |
| | EXTERNAL CONTROL | RS232C(in/out) thru stereo jack, RJ45 | RS232C(in/out) thru stereo jack, RJ45 | RS232C(in/out) thru stereo jack, RJ45 | RS232C(in/out) thru stereo jack, RJ45 | RS232C(in/out) thru stereo jack, RJ45 | |
| Power | 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 Supply | AC100 - 240 V- (+/- 10%), 50/60 Hz | AC100 - 240 V- (+/- 10%), 50/60 Hz | AC100 - 240 V- (+/- 10%), 50/60 Hz | AC100 - 240 V- (+/- 10%), 50/60 Hz | AC100 - 240 V- (+/- 10%), 50/60 Hz | |
| | Power Consumption | Max[W/h] | TBU | 138 | 143 | TBU | TBU |
| | | Typical[W/h] | TBU | 103 | 108 | TBU | TBU |
| | | Rating[W/h] | TBU | 125 | 130 | TBU | TBU |
| | | BTU(Max) | TBU | 351.2 | 487.6 | TBU | TBU |
| | | 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 Package | 1099.2 x 631.5 x 46.3 1247 x 772 x 152 | 1235.1 x 707.9 x 46.3 1402 x 858 x 163 | 1453.9 x 831.0 x 46.3 1611 x 973 x 185 | 1681.1 x 960.1 x 49.7 1871 x 1127 x 223 | |
| | Weight (kg) | Set Package | 10 13.3 | 13.5 18 | 18.1 23.6 | 24.9 33.3 | |
| | 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) | 9.2mm(U/L/R), 11.2mm(B) | 9.2mm(U/L/R), 11.2mm(B) | 9.2mm(U/L/R), 11.2mm(B) | 9.2mm(U/L/R), 11.2mm(B) | 11.5mm(U/L/R), 12.5mm(B) | |
| 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% | |
| Key | Key | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | UHD Signage Display Slim & Light Signage with Built-in MagicInfo S6, SSSP 6.0 Temperature Sensor/Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | |
| | Special | H/W S/W | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting) |
| Feature | Processor | Coretex A72 1.7GHz Quad-Core CPU | Coretex A72 1.7GHz Quad-Core CPU | Coretex A72 1.7GHz Quad-Core CPU | Coretex A72 1.7GHz Quad-Core CPU | Coretex A72 1.7GHz Quad-Core CPU | |
| | On-Chip Cache | L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB | L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB | L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB | L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB | L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB | |
| | Memory | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | |
| | Clock Speed | 1.7GHz | 1.7GHz | 1.7GHz | 1.7GHz | 1.7GHz | |
| | Main Memory Interface | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | 2.5GB LPDDR4 1.5GHz 64bit | |
| | Graphics | Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) | Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) | Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) | Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) | Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.) 8GB (3.88GB Occupied by O/S, 4.12GB Available) | |
| | Storage (FDM) | *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 | *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 | *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 | *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 | *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 | |
| | Multimedia | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 | |
| | IO Ports | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 | |
| | Operating System | Tizen 4.0 (VDLinux) | Tizen 4.0 (VDLinux) | Tizen 4.0 (VDLinux) | Tizen 4.0 (VDLinux) | Tizen 4.0 (VDLinux) | |
| Certification | Safety | 60950-1 | 60950-1 | 60950-1 | 60950-1 | 60950-1 | |
| | EMC | Class B | Class B | Class B | Class B | Class B | |
| | Environment | ENERGY STAR 70 (USA) | ENERGY STAR 70 (USA) | ENERGY STAR 70 (USA), Epeat | ENERGY STAR 70 (USA), Epeat | ENERGY STAR 70 (USA), Epeat | |
| Accessories | Included | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries | |
| | Optional | Stand | STN-L4355F | STN-L4355F | STN-L4355F | No | No |
| | | Mount | WMN40705E | WMN40705E | WMN40705E | WMN40705E | WMN42775E WMN65755E |
| | | Specialty | CML400XK | CML400XK | CML400XK | CML450K | CML450K |
| | | Media Player | N/A | N/A | N/A | N/A | N/A |