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At DSE 2019, Sharp launches two new lines of 4K UHD (3840 × 2160) resolution commercial displays.

Sharp's **PN-HM Series** includes the PN-HM651 65" Class (64 ½" diagonal), PN-HM751 75" Class (74 9/16" diagonal) and PN-HM851 85" Class (85 9/16" diagonal) displays. They each provide a brightness of 500 nits, are designed for 24/7 environments and are built to handle a range of signage needs, from simple set-ups to large networks with multiple displays.

The new **PN-HB Series** includes the PN-HB651 65" Class (64 ½" diagonal), PN-HB751 75" Class (74 -9/16" diagonal) and PN-HB85185" Class (85 9/16" diagonal) displays. They each have a brightness of 350 nits, are designed for everyday 16/7 operation and are ideal for most well-lit environments, featuring versatility in commercial settings.

Both new lines deliver digital signage straight out of the box with a built-in system-on-a-chip (SoC) controller.

Over at rAVe Publications, co-founder Gary Kayye has been saying for years that **the future of displays is built-in, thin-client computers**
(eliminating the need for a computer in the room and opening up the possibility of cloud-based content delivery) and both display lines come with Sharp's integrated system-on-a-chip (SoC) controller driven by an ARM Cortex hexa-core processor. The displays support both H.264/AVC as well as H.265/HEVC. The latter is a next-generation, high-efficiency video codec

that reduces the communication burden during video transmission and gives content a new level of depth and presence.

This platform also allows third-party soft-ware developers to create custom signage applications, allowing for rich possibilities for digital signage in retail, office and other settings. Sharp has alliances with various developers through its **Sharp Open Architecture Program**, including
Appspace, Enplug, Capital Networks, Industry Weapon, Navori, Novisign, Omnivex, Onsign TV, PingHD, Revel Digital
and
Starmont
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Certification under the Google Compatibility Test Suite (CTS) assures compatibility with third-party Android apps. Moreover, the displays feature a pre-installed HTML5 browser and supports high-speed wireless LAN and features built-in Bluetooth connectivity, allowing users to deliver content and connect equipment wirelessly.

When the displays are powered on, a built-in media player automatically starts playing content stored in internal storage or on a USB memory device or microSD card. A simple schedule function allows users to pre-register seven patterns for when to start/stop the content playback. Users can also make playlists that combine still images and videos, all without any extra software, special skills, or even a PC. This capability allows for cloud-based content providers to serve content to the displays in the future.

The displays also come bundled with **Sharp's e-Signage S software**, which supports creating, scheduling, distributing and managing a wide range of signage programs on Sharp LCD displays, as well as creating editing signage programs through simple drag-and-drop operation.

All of the new displays can be installed in landscape or portrait orientation, or even face up. They can also be tilted – either backward up to 90 degrees or forward up to 20 degrees. Up to four displays can be set up in a daisy chain configuration, allowing users to display the same content simultaneously on all screens.

The PN-HM751 and PN-HB751 smart 4K Ultra-HD displays will begin shipping in USA in April, while the PN-HM651, PN-HM851, PN-HB651 and PN-HB851 will ship later this spring 2019.

Go Sharp at DSE 2019