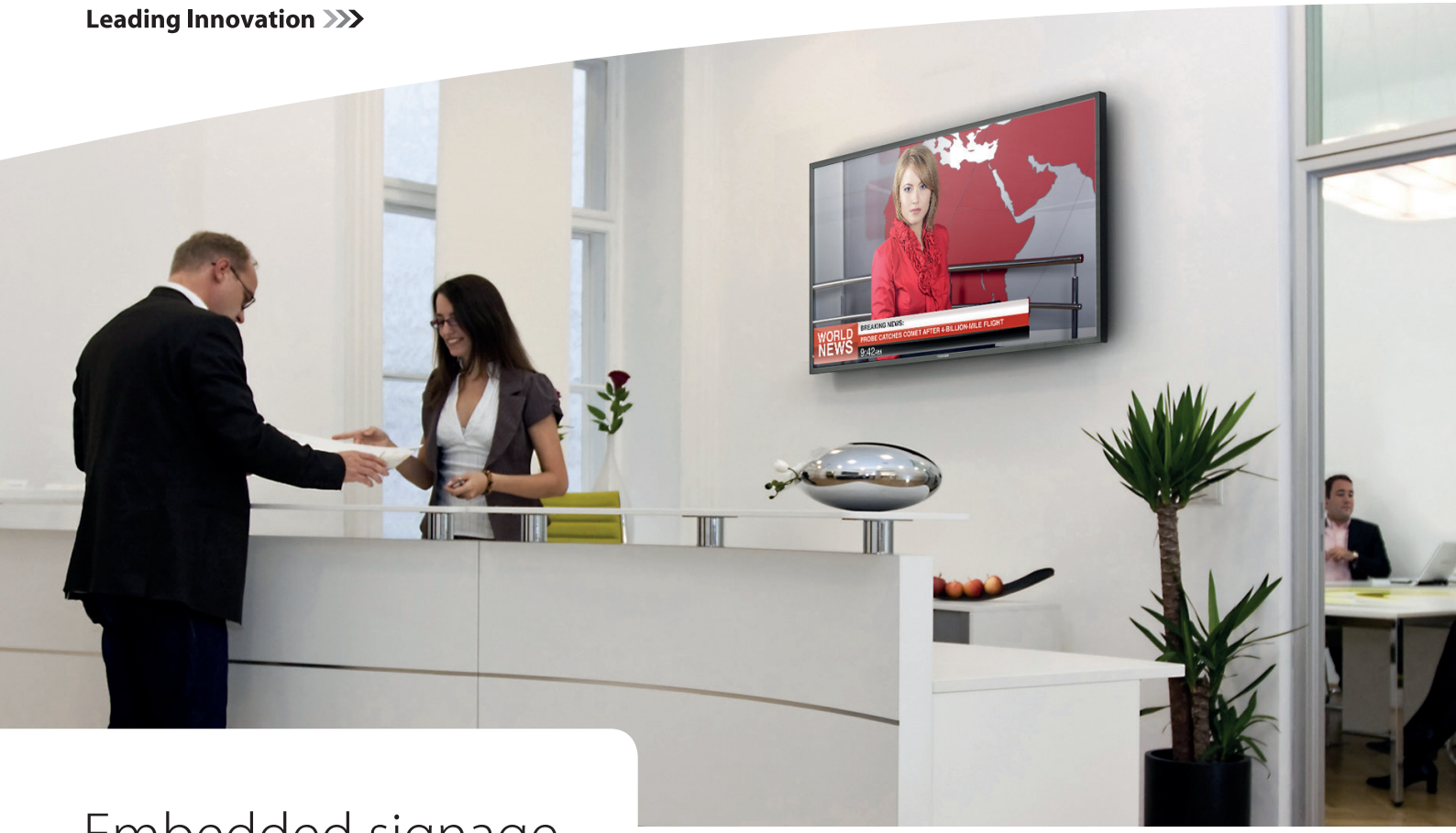
TOSHIBA
Leading Innovation



Embedded signage

We've increased your options by offering embedded signage derivative models, allowing software partners to port their own solutions directly on Toshiba displays. The embedded software solutions run using the internal SoC (System on Chip) directly within the displays themselves, linking central software systems without the need for external media devices or additional cabling. Toshiba's latest Embedded Signage models can be identified by the ending 'E' found after the model number, for example, TD-E433E. Our Embedded Signage displays are available across our signage range, in a variety of screen sizes.

Overview

- Standalone Solution.
- No Toshiba License Fees.
- Single HW vendor.
- Safety Approvals and environmental certification from single vendor.
- Simple connection requirement (1 AC power and 1 Network connection).
- Single Unit Installation and Service requirement.
- Embedded solution available across complete range.
- Software solution able to access all display control resources (not possible with external media players).
- EU Based Local Software Engineering Support.

Advantages of Embedded Signage (SoC)

- ✓ Reduces Total Cost of Ownership
- ✓ Simplifies installation process
- ✓ Flexible content management
- ✓ Cleaner display appearance

Easy setup and activation

External devices are no longer needed to deliver content and partners software can be directly integrated within Toshiba Business Displays. Setup is now quicker and simpler with only the display and a network connection required. There is no longer a need to hide unsightly cabling or position additional set top boxes.

Broad range of functionality

When using Embedded signage a range of functions are available to the solution provider & end user. Examples are creation of content loops, management of content schedules, animations, scrolling text patterns and the downloading of content resources directly to the internal USB memory for local playback.

External control

Through the use of Embedded Signage manage your content from local and external networks allowing you to manage content on the move.

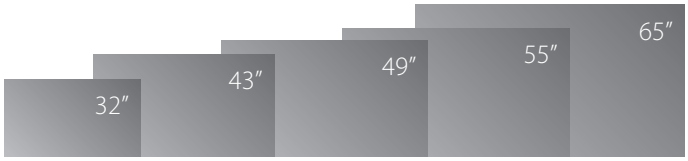
Please contact your local sales representative today to discuss opportunities or if you are interested in becoming a strategic partner.
Please visit: www.toshiba.eu/locatortool

EMBEDDED SIGNAGE

API Modules

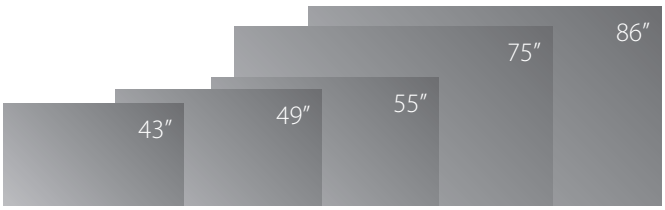
Resource	Support	Notes
Application Manager	Manage Browser Windows	Have multiple independent applications running (e.g., player rendering, content downloader, watchdog application / status monitoring…)
Network Manager	Manage Network Interfaces	Automatic joining to whitelisted networks or with pre-defined configurations (wifi or wired)
Date Time Settings	Manage Date/Time	Sync and control system time for each unit remotely
Input Manager	Set/Get current AV input, Set the Video position to the specified coordinates etc.	Remotely control source input based on schedule; local fault-back on available inputs, alert in case inputs change or are not available any more
Standby Controller	Enter/Quit/Query Active Standby	Manager power of the panel programmatically, based on schedule or events
Storage Manager	Get Removable Device Information, List/ Format available storages	Manage and use local media assets for local playout, content refresh mechanisms
General Settings / RS232 Manager	Set/Get Volume level, Query active standby, manage screen settings (picture/sound)	Manage all monitor settings programmatically
Custom Download Manager	Manage downloads of files	Download media assets, configuration files, data files to local storage
Remote Key generator	Generate remote control key press events	Send key sequences for automated configuration or remote control of the monitor
MacId	Get unique ID for the set	Identify uniquely the target monitor
Screenshot	Get screenshot of current monitor playout	Monitoring and live view of a specific monitor or remote control of unit
ZIP file manager	Unzip downloaded resources	Download group of resources compressed and use them locally uncompressed
Video Broadcast object	Control PiP	Mix rendered content with video content, manage over-impression for videos or external inputs
Optional touch screen	Fully compatible with embedded signage gesture support	Allowing end-users to scroll, tap and browse intuitively. USB plug and play, the solution works straight out of the box
Videos	H.264 / H.265 codecs, mp4 / mkv / avi formats	All videos are rendered by a dedicated GPU to ensure a perfect and smooth playout; video playout performances do not affect other CPU operations of the monitor
Images	JPG, PNG (All web-standard formats)	Images can be displayed in full screen or shown in smaller media windows
Fonts	Web fonts	Web Fonts can be referenced and locally stored to ensure best typography rendering
Flash content	Not supported	Flash is an outdated format, no longer supported by mail platforms in the market. Any flash content can be converted to HTML5 equivalent
WebGL	Fully supported	Use WebGL for 2D and 3D animations and effects with full HW accelerated rendering
HTML5	Chromium M44 equivalent support	Wide support for CSS3 and JS animations with HW acceleration

Embedded Signage Models



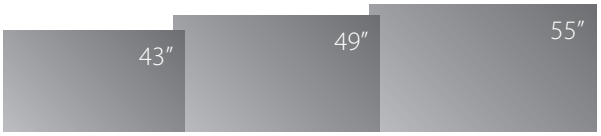
16/7 Model – TD-E3E Series

- 16/7 usage
- Full HD (65″=UHD)
- Landscape/Portrait Orientation
- Brightness: 400Nit



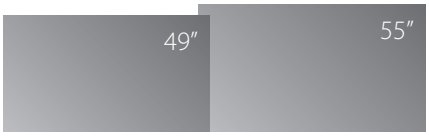
24/7 Model – TD-P3E Series

- 24/7 usage
- Full HD (75″, 86″=UHD)
- Landscape/Portrait Orientation
- Brightness: 400Nit



High Brightness – TD-Q3E Series

- 24/7 usage
- Full HD
- Landscape/Portrait Orientation
- Brightness: 700Nit



Video wall – TD-Y3 Series

- 24/7 usage
- Full HD
- Landscape/Portrait Orientation
- Brightness: 450Nit 49″ & 500Nit 55″